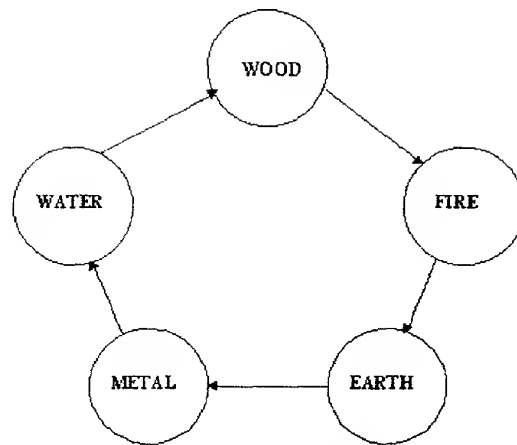
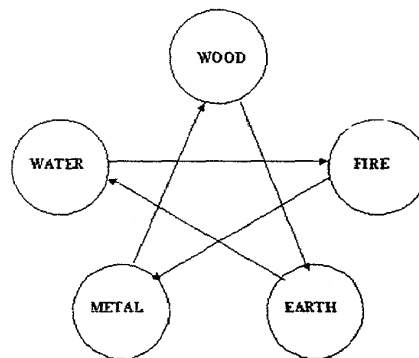


Figure 1



Productive cycle

Figure A shows the element that helps the other element



Controlling cycle

Figure B shows the element that controls the other element

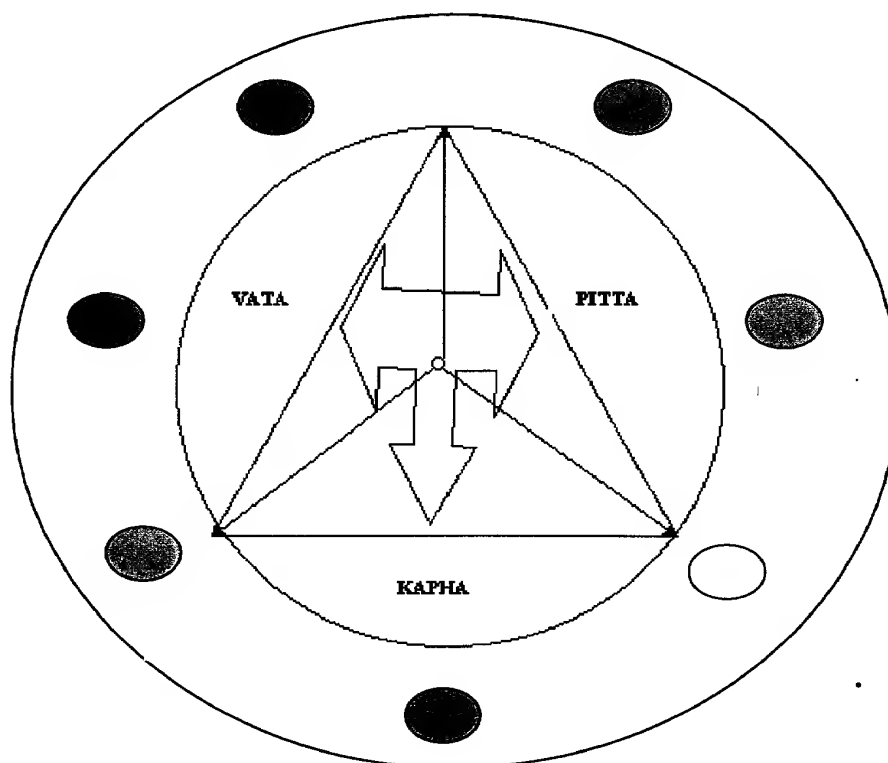
Any imbalance (excess or deficiency) of one element leads to disturbance in other elements and becomes the root cause of a disease. The health of human body is achieved by managing and controlling the above elements in Chinese medicine.

Most of the world traditional philosophies follow the same concept.

Figure 2

Relation of colors with humors

VATA	KAPHA	PITTA

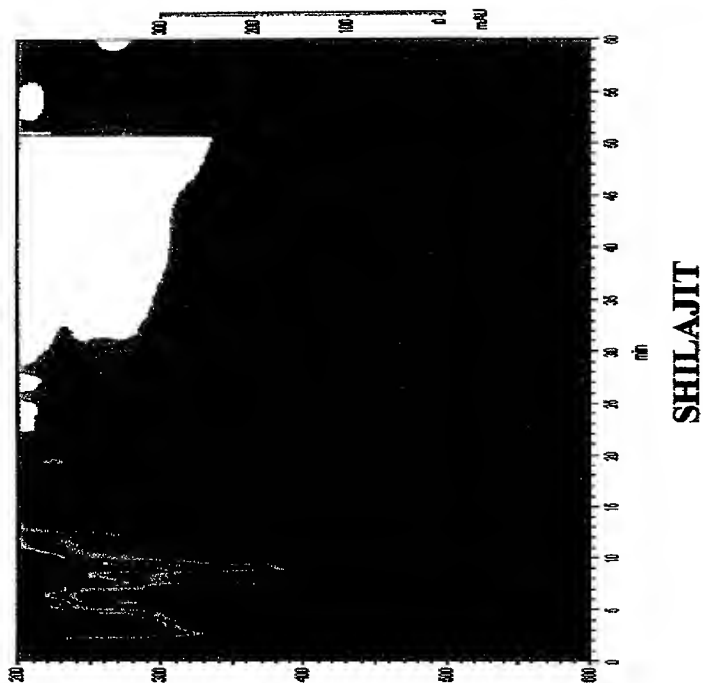
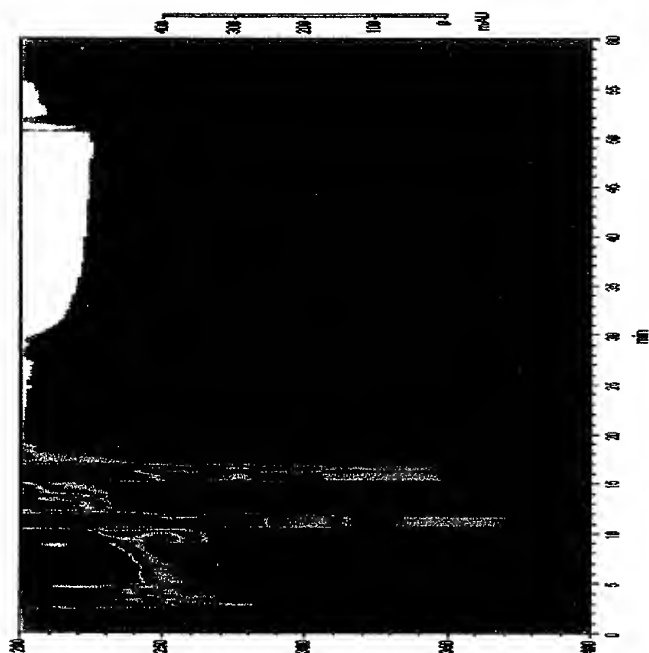


The above diagram shows the effect of colors on the basic humors based on which the medicines of the same colors were selected for vitiating the corresponding humor. The colors of the leaves, flowers, various parts of the plants and the organo-metallic formulations were taken in to consideration to understand the therapeutic efficacy of traditional medicines. The colors of the medicines is due to the chemical properties of the constituents present in it, thus indirectly the chemical properties were used for the therapeutic standardization.

This table was prepared based on ancient knowledge

Figure 3

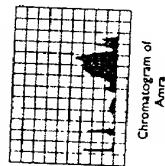
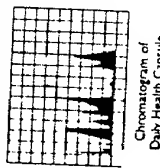
THE SHILAJIT EXAMPLE



THE CHEMICAL PROFILE IN THE FINGER PRINT SHOWS THE THERAPEUTIC EFFICACY DUE TO THE PRESENCE OF MORE NUMBER OF MOLECULES WITH WIDE CONJUGATIVE PROPERTIES, THE CHEMICAL PROFILE VARIES WITH THE AGE OF THE SAMPLE, IT SPENT IN THE EARTH, THE MORE IT IS OLD, THE MORE IT WILL BE THERAPEUTICALLY ACTIVE AND MAY ALSO DEPEND ON THE PLACE OF COLLECTION AND PURIFICATION PROCESS.

Herbal formulations with the same ingredients may differ substantially in safety and efficacy depending on the quality and processing of the herbs. Careful selection of herbs, stringent quality control and Chromatographic fingerprinting ensure that the final product delivers the same benefits that have been proven in clinical studies.

Each **Ayurvedic CONCEPTS** formula represents the results of subjecting ancient Ayurvedic knowledge to rigorous modern research and scientific analysis. These products are manufactured according to the rigid standards of modern pharmaceutical technology.



Store in a cool, dry place.
Keep out of the reach of children.

Research expertise by:
THE HIMALAYA DRUG CO.
HIMALI, BANGALORE - 562 122 (INDIA)
Enriching Ayurveda Through Research Since 1930

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Ayurvedic CONCEPTS



Daily Health Capsules

Antistressor • Rejuvenator
Amla • Licorice
• Natural Zinc

60 CAPSULES

Each capsule contains:

Pdts.	
Amalaki	90 mg
Garijara	90 mg
Yashad bhasma	1.94 mg
Exts.	
Amra	120 mg
Yashti-madhu	25 mg
Lavanga	25 mg
Draksha	10.50 mg
Oil	
Godhuma	17.56 mg

Dosage:
2 capsules twice a day.

Natural products provide gradual but long-lasting results. Allow several weeks for full benefits.

Mfg Lic. No.: AI/S-83

M.R.P.: Rs. 60.00

(Incl. of all taxes)

Exp: 3 yrs. from date of Mfg

B.No.: 90702

Mfd.: July 99

Made in India by:



THE HIMALAYA DRUG CO.
HIMALI, BANGALORE - 562 122 (INDIA)

Relieves stress, mental fatigue, Rest a healthy equilibrium.

Stress has become part of life today. Continued stress disrupts the immune system leading to chronic fatigue, hypertension, Pollution and chemicals cause oxidative damage to the body by the release of free radicals, thereby disturbing normal body functions.

Daily Health capsules are non-sedating rich in anti-oxidant vitamins in the form of Amra and Garijara (vit.A), Amalaki (Amla) (vit.C), and Lavanga (Clove), Draksha (Grapes) and Godhuma (Wheatgerm) oil (vit.E). Yashti-madhu (Licorice) and Yashad bhasma (Natural Zinc) are excellent immune-stimulators that bolster the body's defence mechanism keeping you fit and healthy.

Clinical trials on the product have proved it to be beneficial in the treatment of stress of various origins.

Ayurvedic Proprietary Medicine.

Completely safe. Non-toxic.

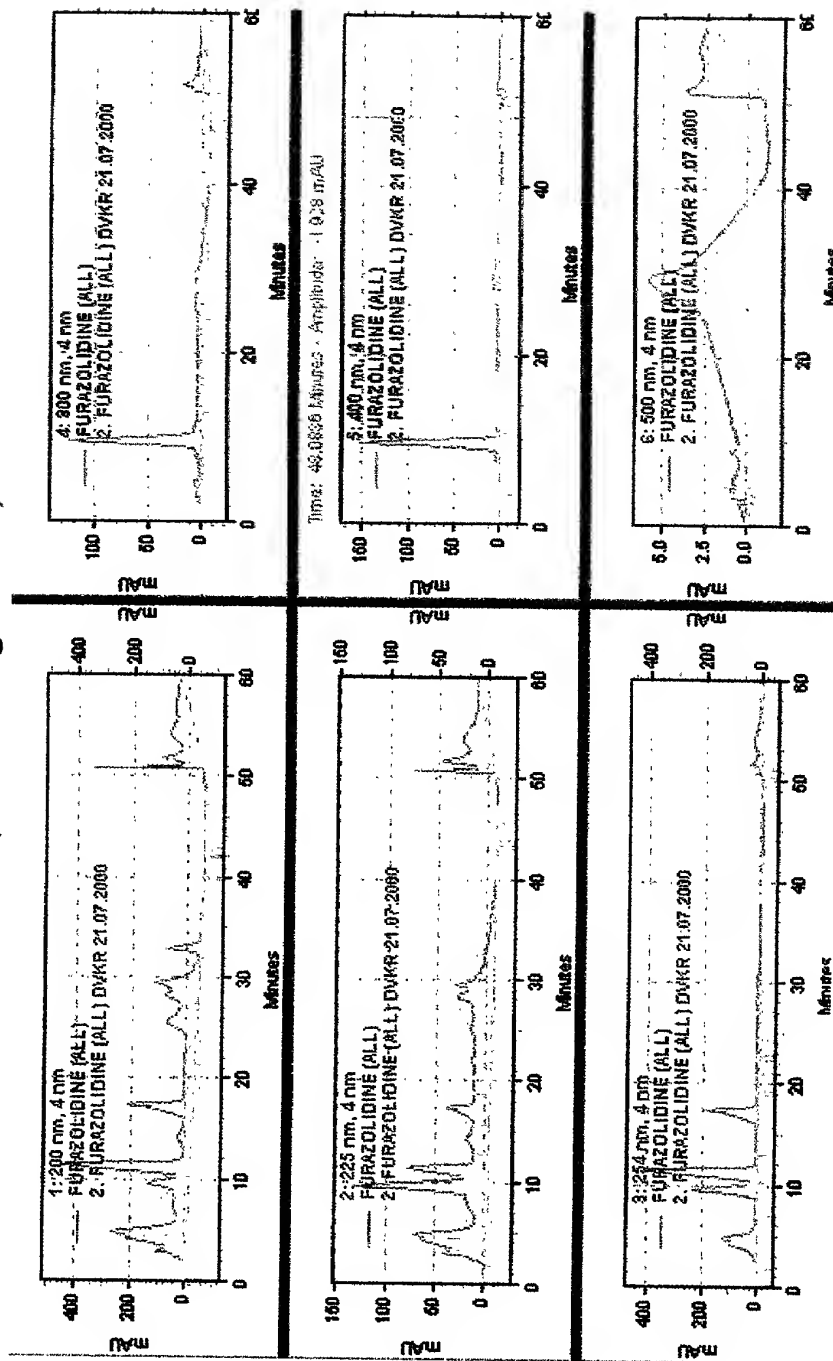
NON-SEDATING.

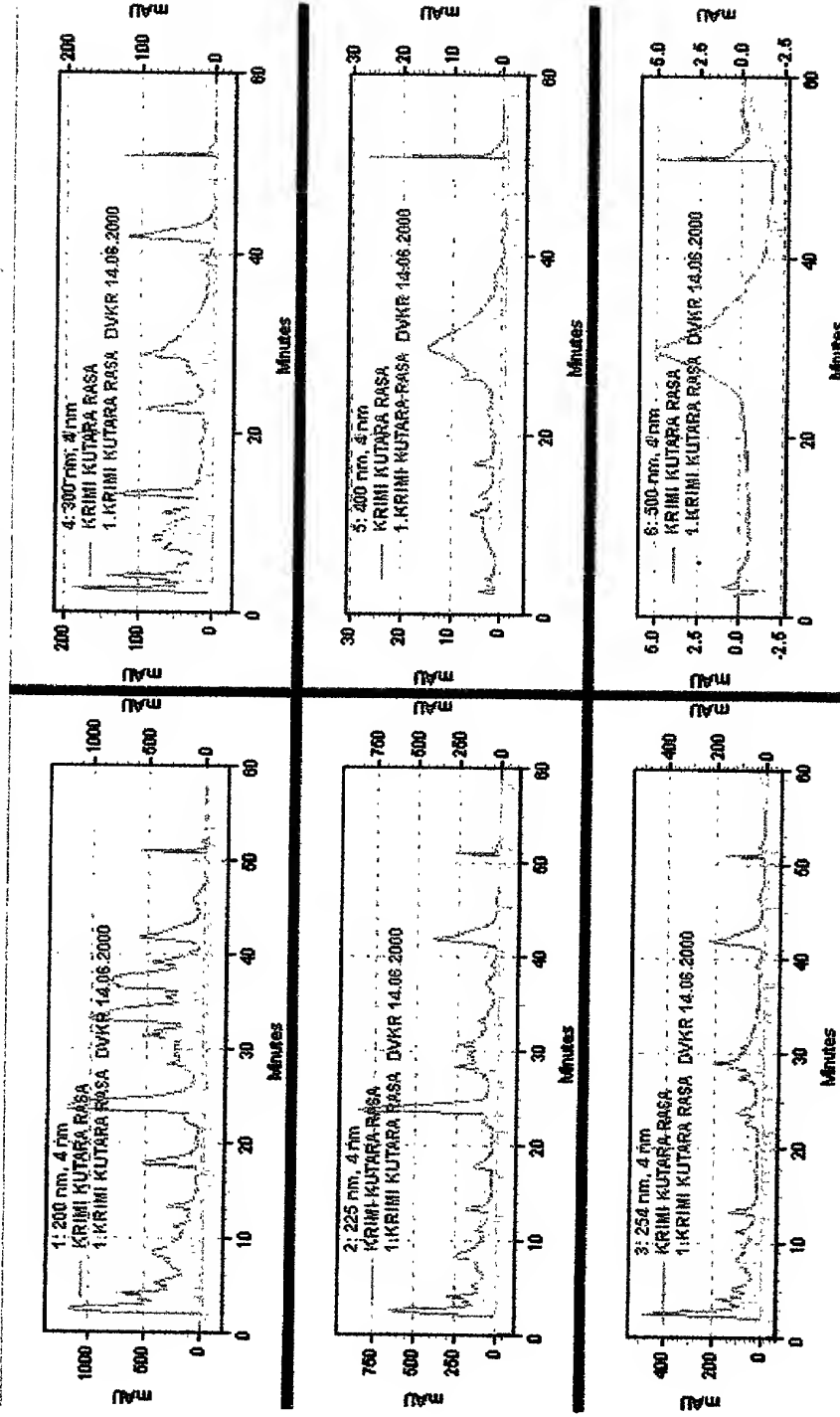
The chromatographic fingerprint does not give any clear information about the polarity and conjugative properties of the constituents.

Figure 6

CHROMATOGRAMS OF A FURAZOLIDINE MEDICINE AT DIFFERENT WAVELENGTHS

(The existing method)



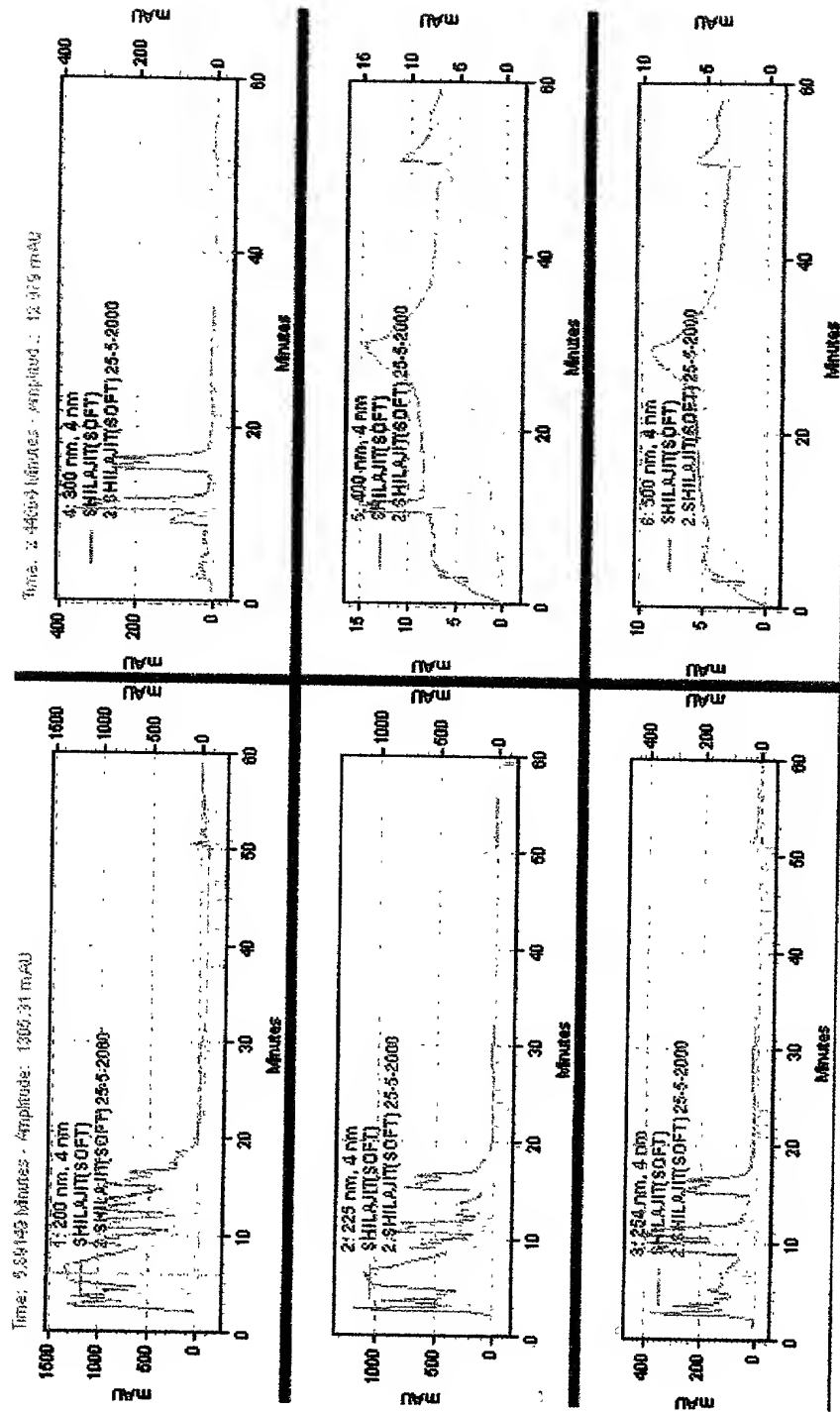


CHROMATOGRAMS OF A HERBOMINERAL MEDICINE

SHILAJIT (GOOD BY EFFICACY)

AT DIFFERENT WAVELENGTHS

(The existing method)

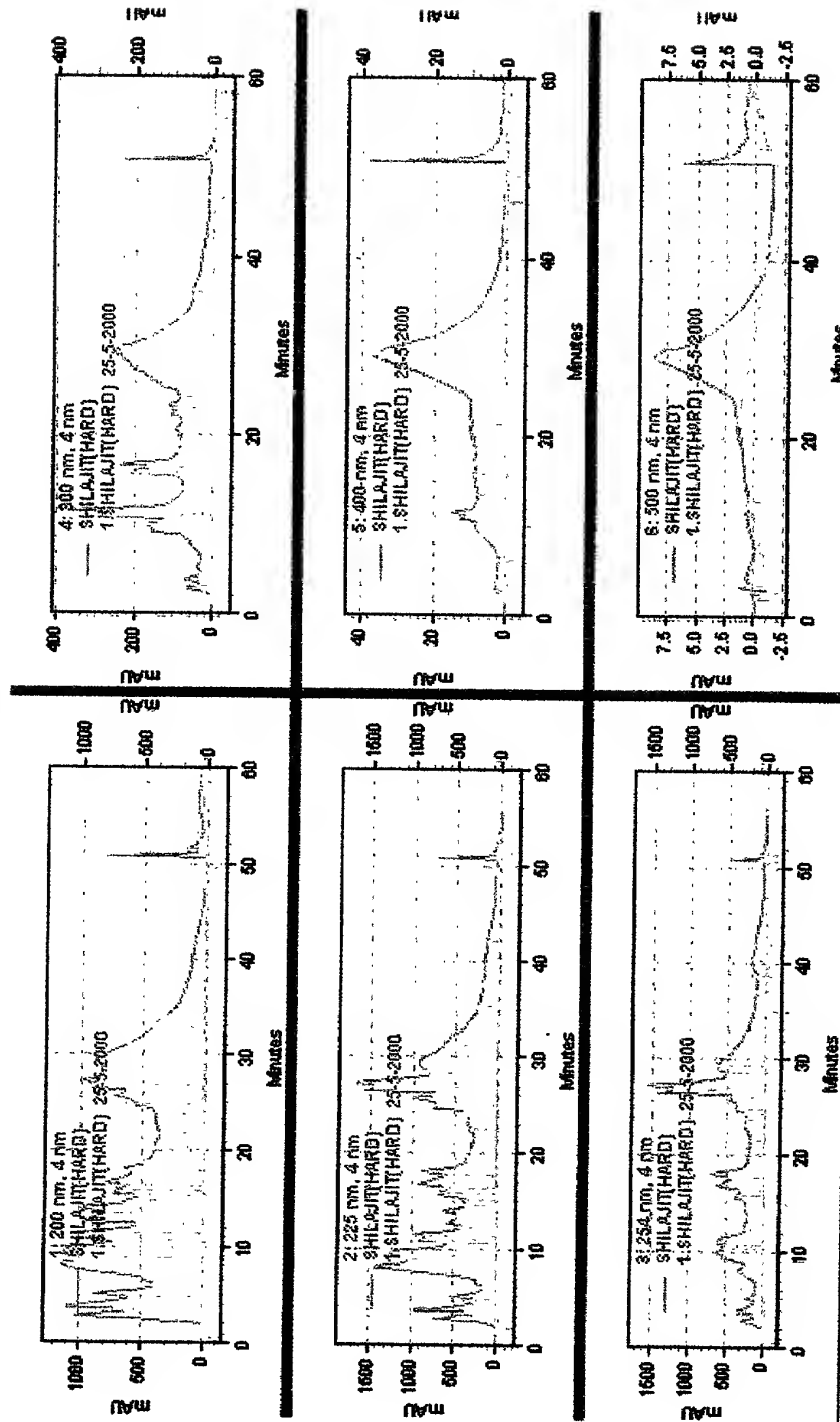


CHROMATOGRAMS OF A HERBOMINERAL MEDICINE

SHILAJIT (POOR BY EFFICACY)

AT DIFFERENT WAVELENGTHS

(The existing method)



CHROMATOGRAMS OF A HERBAL FORMULATION

SURYAVARTI AT DIFFERENT WAVELENGTHS

(The existing method)

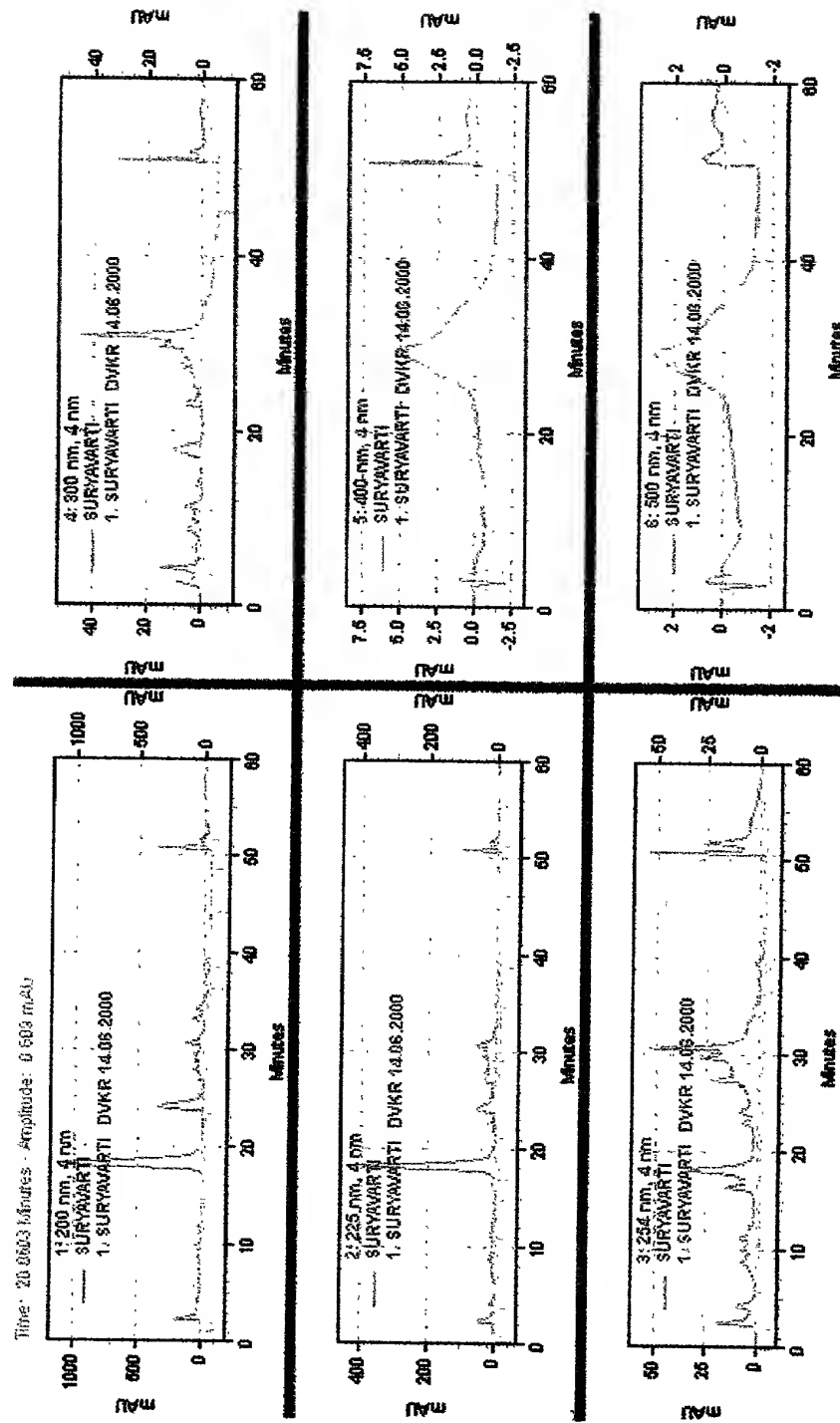
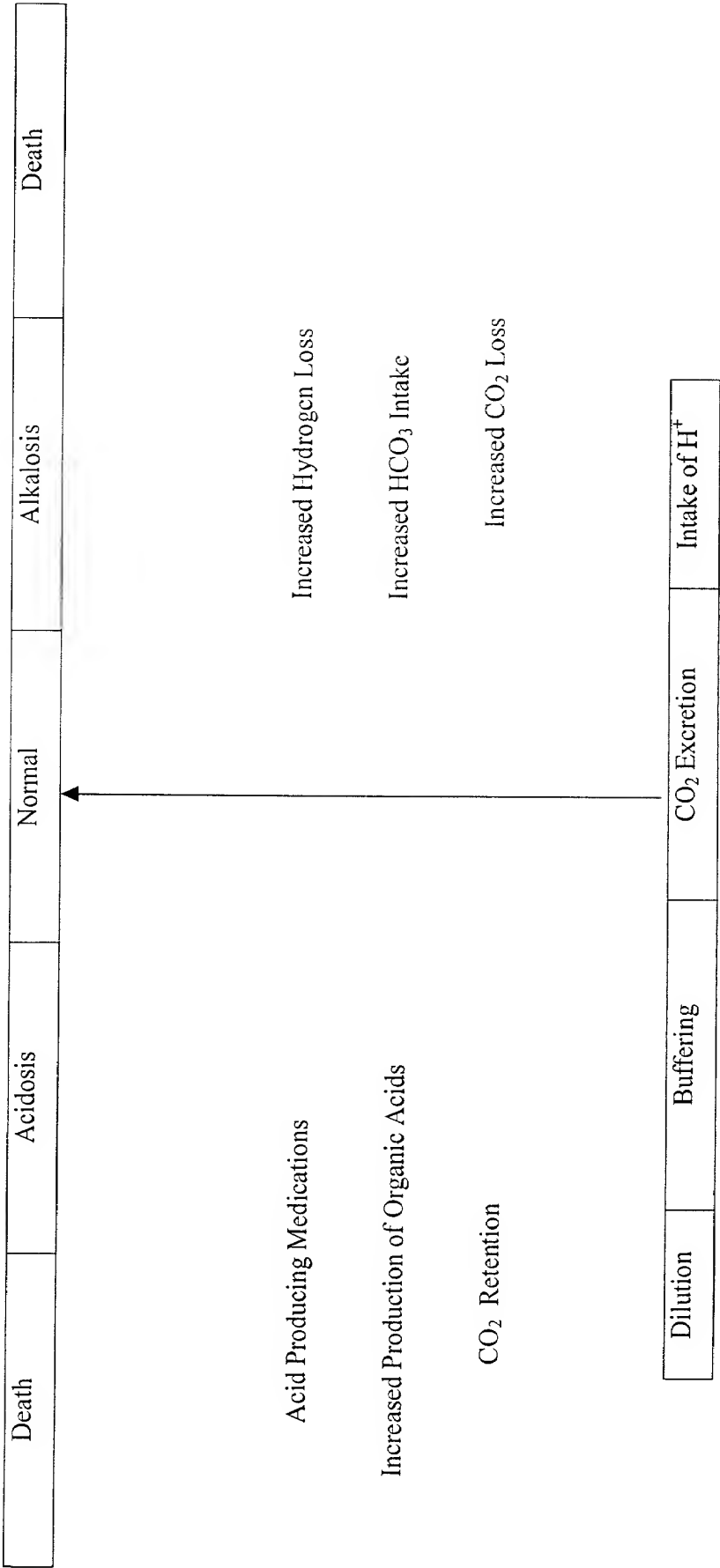


Figure 11 : Role of Acidity and Alkalinity in Human Body



CHROMATOGRAMS OF A HERBAL FORMULATION TRIKATU (A FORMULATION OF PIPPALI, MARICHA AND SHUNTI) AT DIFFERENT WAVELENGTHS (The existing method)

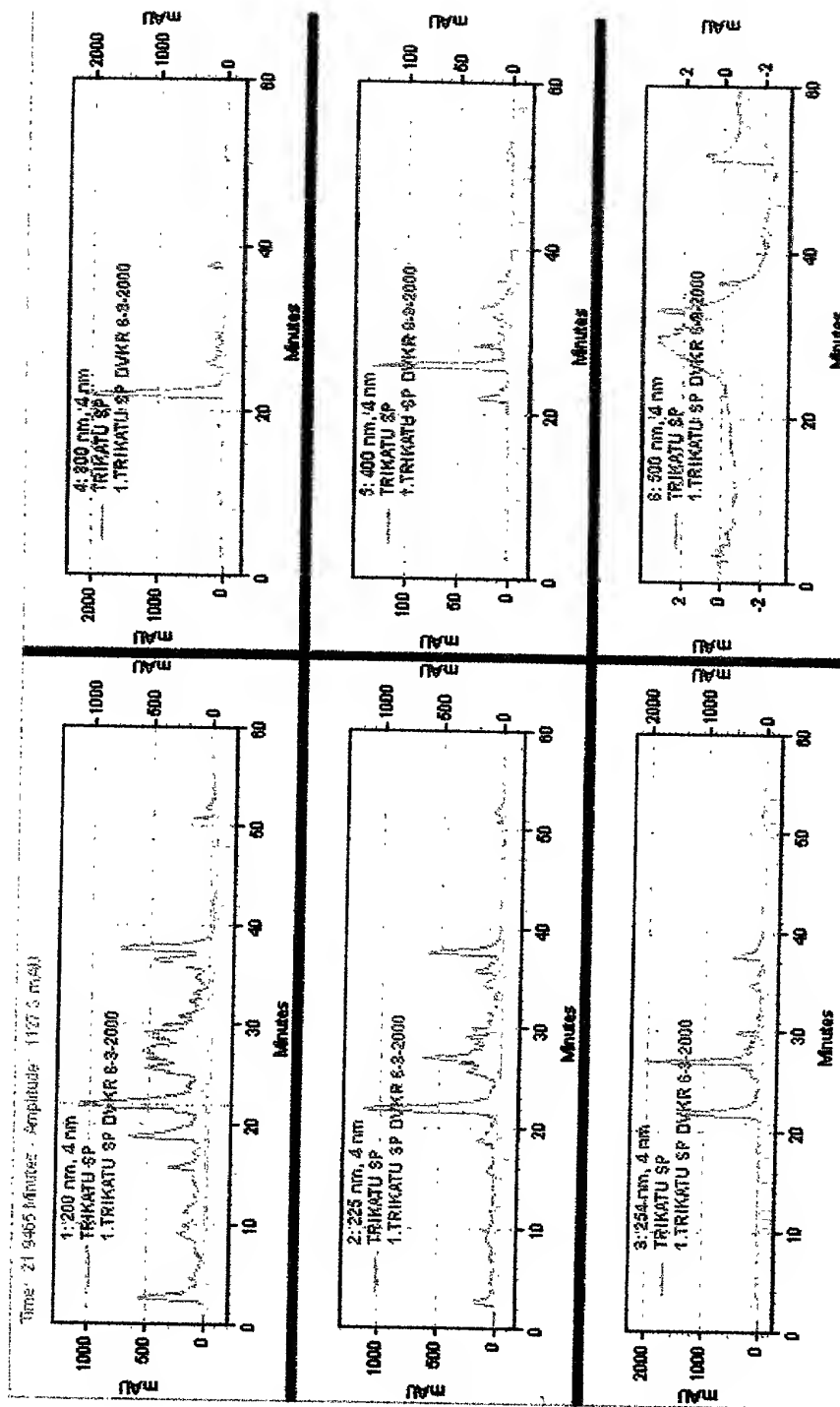
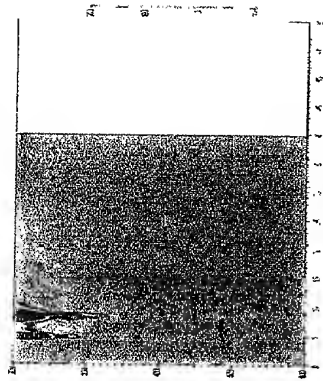
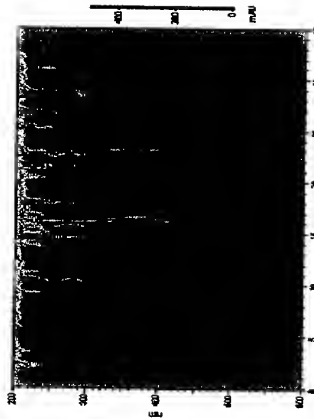


Figure 13

THE YELLOW MEDICINES



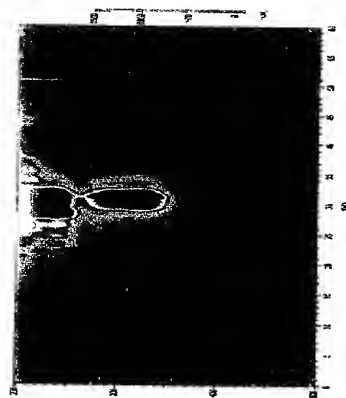
**COSCINIUM
FENESTRATUM**



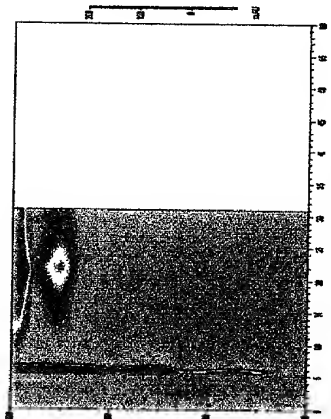
**ZINZIBER OFFICINALE
(PROCESSED)**



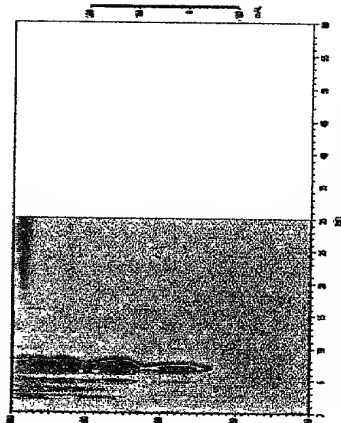
CURCUMA LONGA



CUMMIPHORA MUKUL

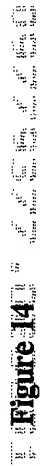


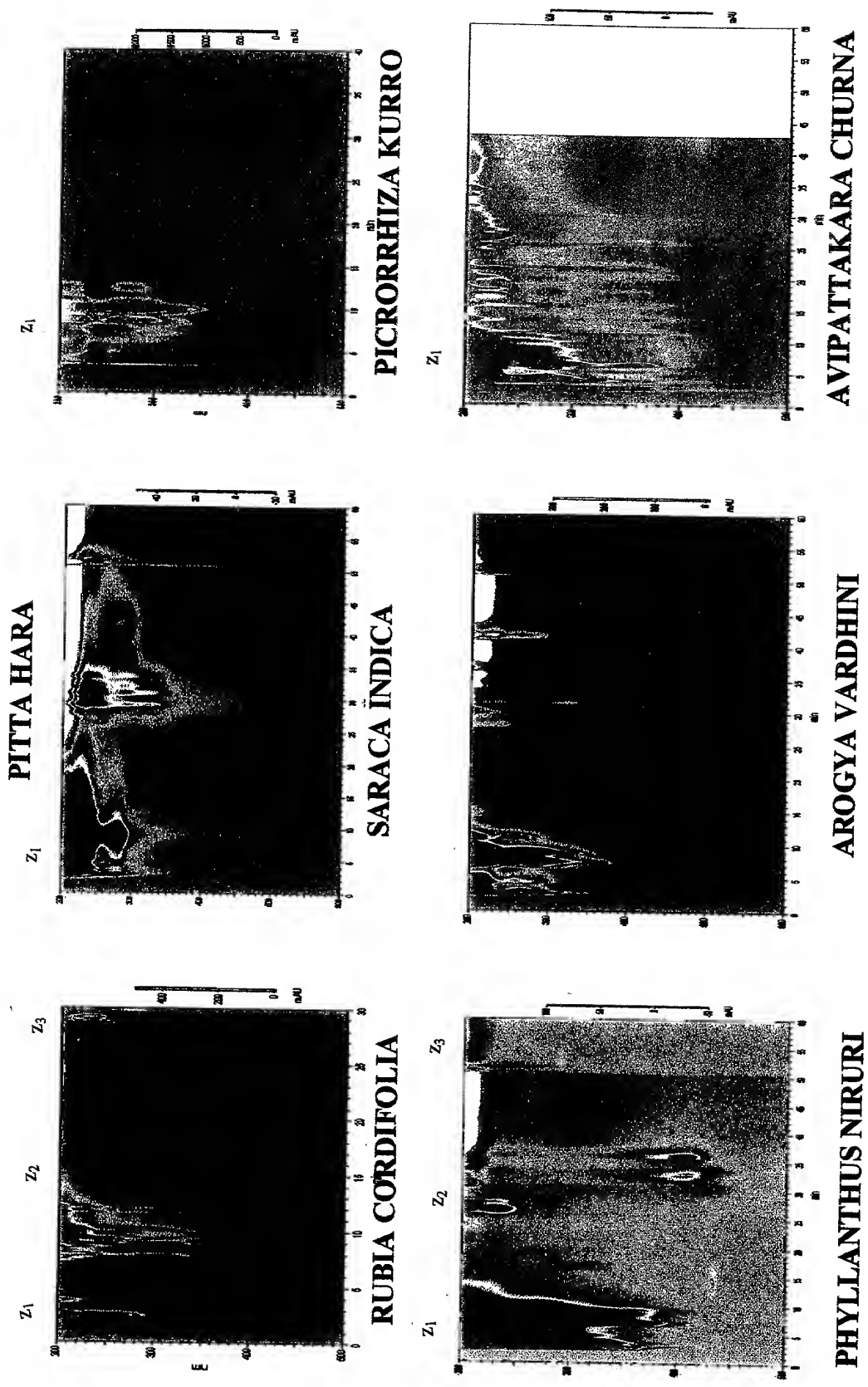
BERBERIN



BERBERIS ARISTATA

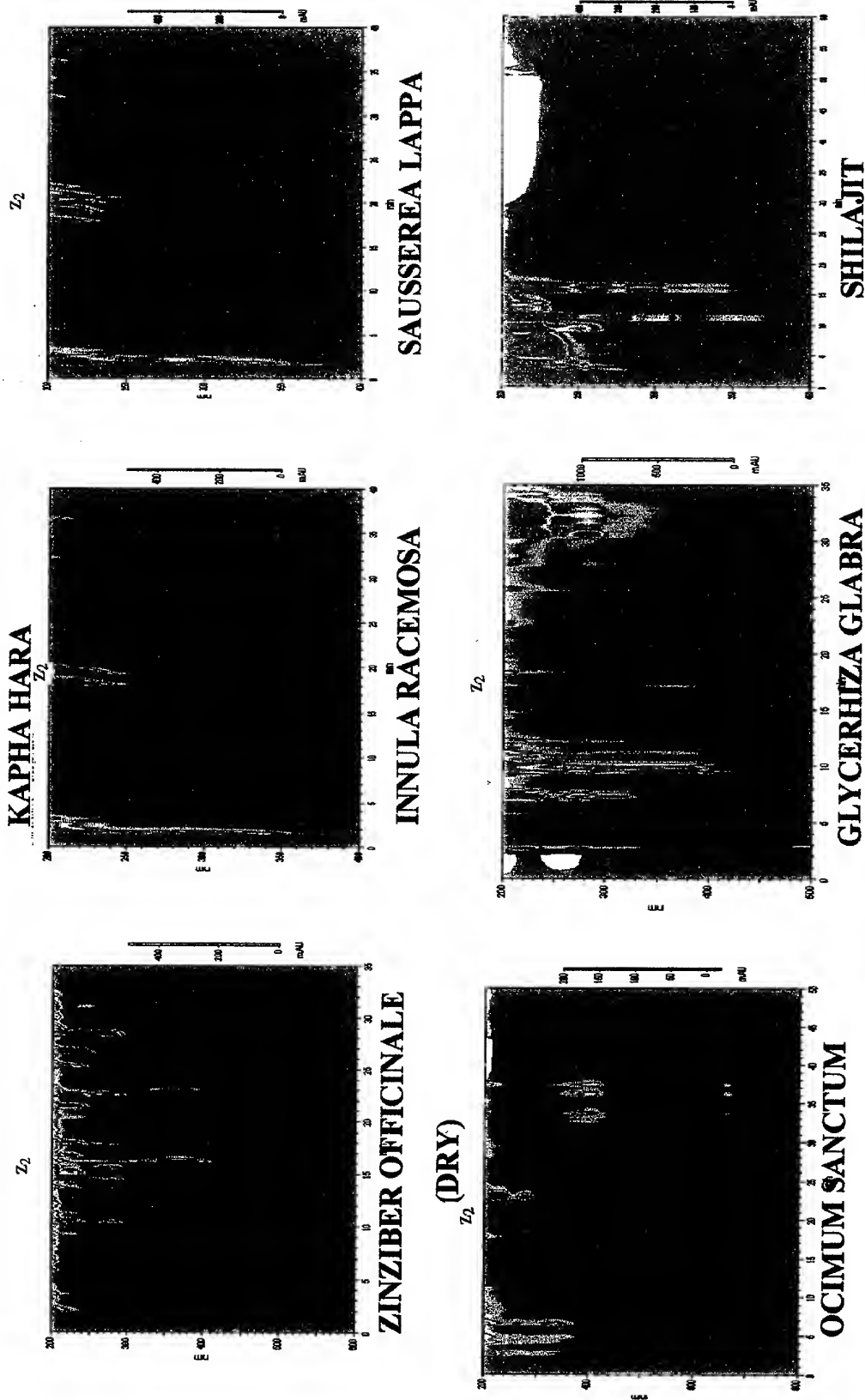
THE FINGERPRINTS OF CONTRAVERSIAL DRUGS (SANDIGHA DRAVYAS) SHOWS A CLEAR DIFFERENCE IN APPEARANCE MAKING THE IDENTIFICATION MORE EASY.

Figure 14 



THE PRESENCE OF CONSTITUENTS IN ZONE-1
INDICATES THE SAID EFFICACY OF THE MEDICINES

Figure 15
 FTIR spectra of various medicinal plants



**THE PRESENCE OF CONSTITUENTS IN ZONE-2
 INDICATES THE SAID EFFICACY OF THE MEDICINES**

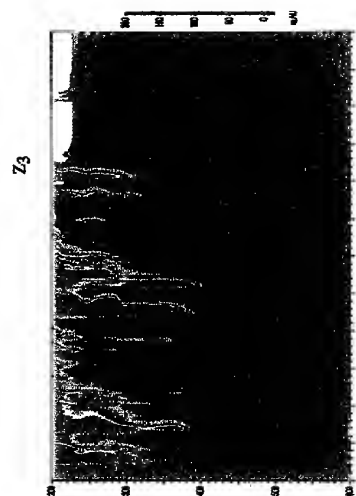
Figure 16

Figure 16 shows the presence of constituents in Zone-3 for various medicines. The figure consists of six subplots, each representing a different medicine. Each subplot is a 2D plot with the x-axis labeled 'Z₃' and the y-axis labeled 'Intensity' (ranging from 0 to 600). The plots show various peaks and patterns, indicating the presence of specific constituents in Zone-3 for each medicine.

VATA HARA



BRIHATVATACHINTAMANI AND SWARNAMAKSHAKAM



HUTHASANA

ALPINIA OFFICINARUM



Z₃



SUVARNA YOGARAJA GUGGULU

Z₃

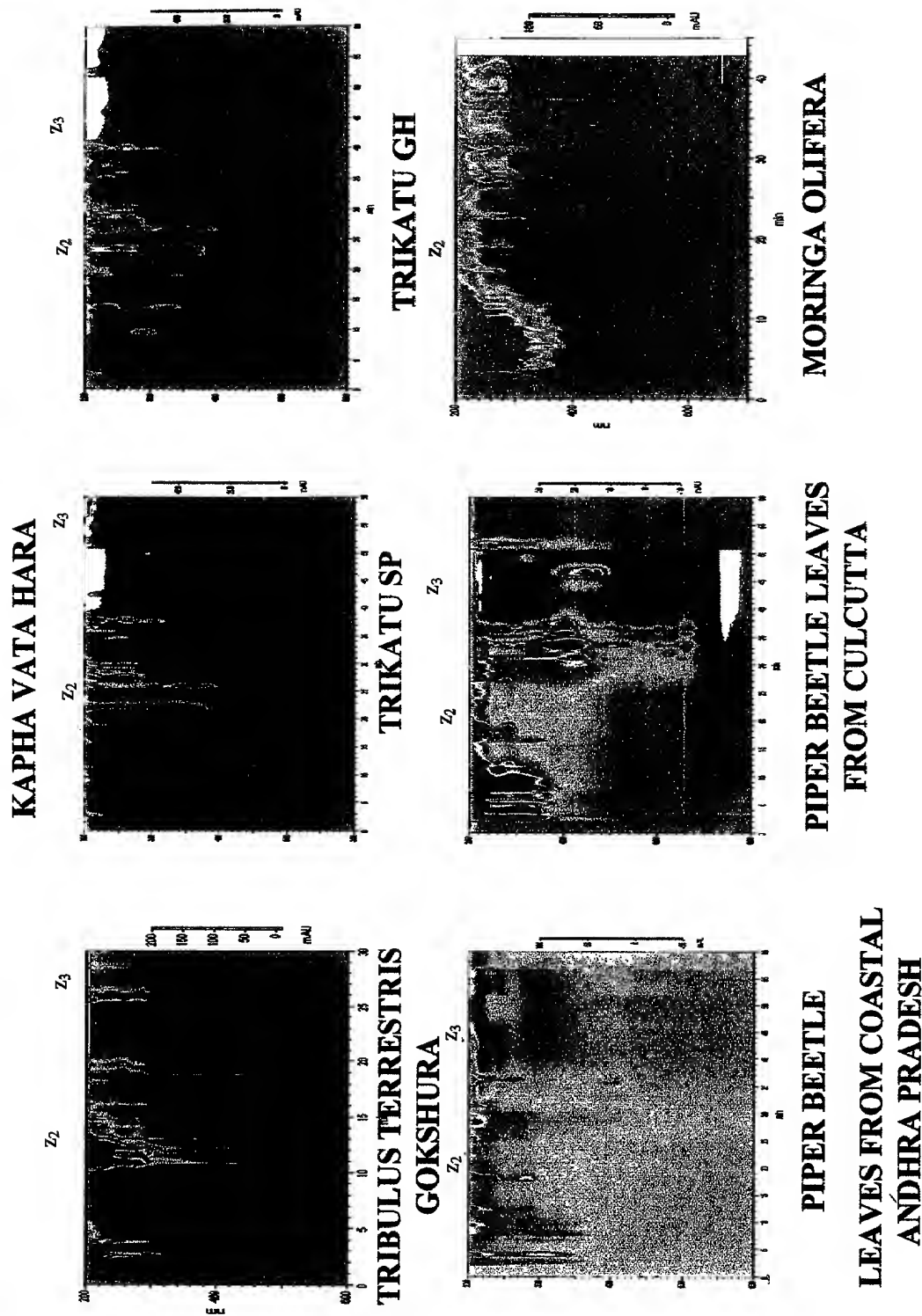


MAHA YOGARAJA GUGGULU

**THE PRESENCE OF CONSTITUENTS IN ZONE-3
INDICATES THE SAID EFFICACY OF THE MEDICINES**

[illegible]

Figure 18

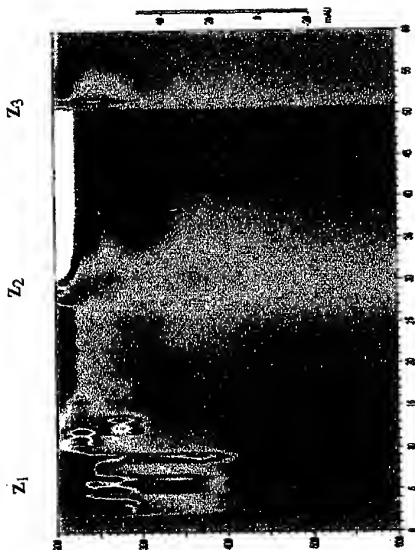


THE PRESENCE OF CONSTITUENTS IN ZONE-2 AND ZONE-3

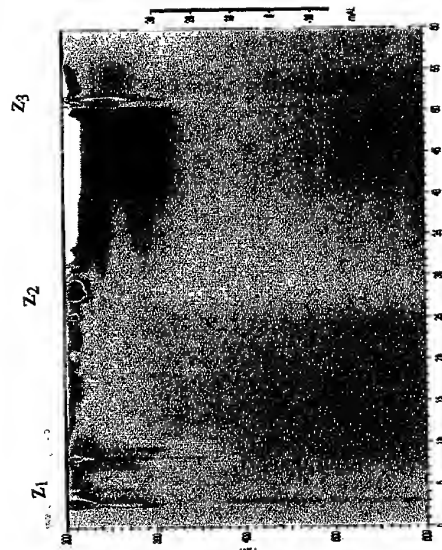
INDICATES THE SAID EFFICACY OF THE MEDICINES

Figure 20 $\frac{\partial^2}{\partial x^2} \frac{\partial^2}{\partial y^2} \frac{\partial^2}{\partial z^2} \frac{\partial^2}{\partial t^2} \frac{\partial^2}{\partial \theta^2} \frac{\partial^2}{\partial \phi^2} \frac{\partial^2}{\partial \psi^2} \frac{\partial^2}{\partial \chi^2} \frac{\partial^2}{\partial \eta^2} \frac{\partial^2}{\partial \xi^2} \frac{\partial^2}{\partial \zeta^2} \frac{\partial^2}{\partial \delta^2} \frac{\partial^2}{\partial \gamma^2} \frac{\partial^2}{\partial \beta^2} \frac{\partial^2}{\partial \alpha^2} \frac{\partial^2}{\partial \omega^2} \frac{\partial^2}{\partial \nu^2} \frac{\partial^2}{\partial \mu^2} \frac{\partial^2}{\partial \lambda^2} \frac{\partial^2}{\partial \kappa^2} \frac{\partial^2}{\partial \iota^2} \frac{\partial^2}{\partial \hbar^2} \frac{\partial^2}{\partial \text{g}} \frac{\partial^2}{\partial \text{f}} \frac{\partial^2}{\partial \text{e}} \frac{\partial^2}{\partial \text{d}} \frac{\partial^2}{\partial \text{c}} \frac{\partial^2}{\partial \text{b}} \frac{\partial^2}{\partial \text{a}}$

TRI DOSHA HARA

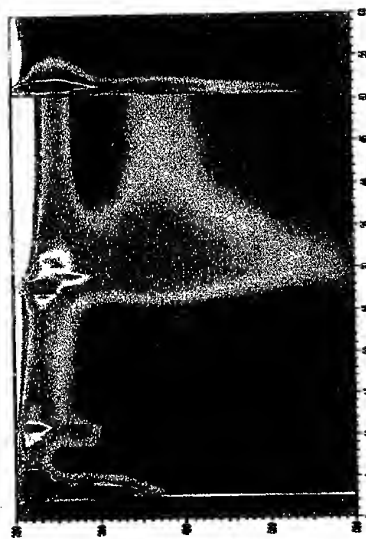


ALLIUM CEPA (BIG)

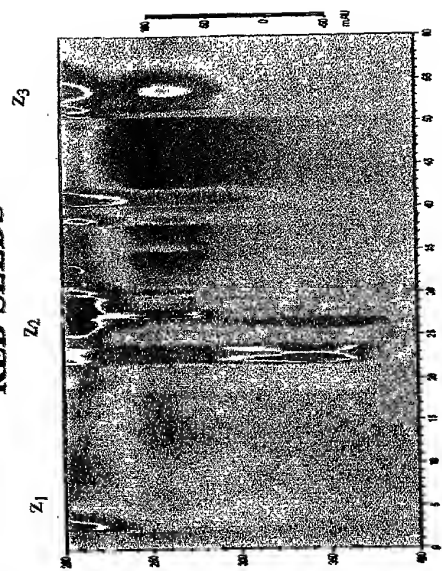


EMBLICA OFFICINALIS

WITHANIA PUBESCENCE



RED SEEDS

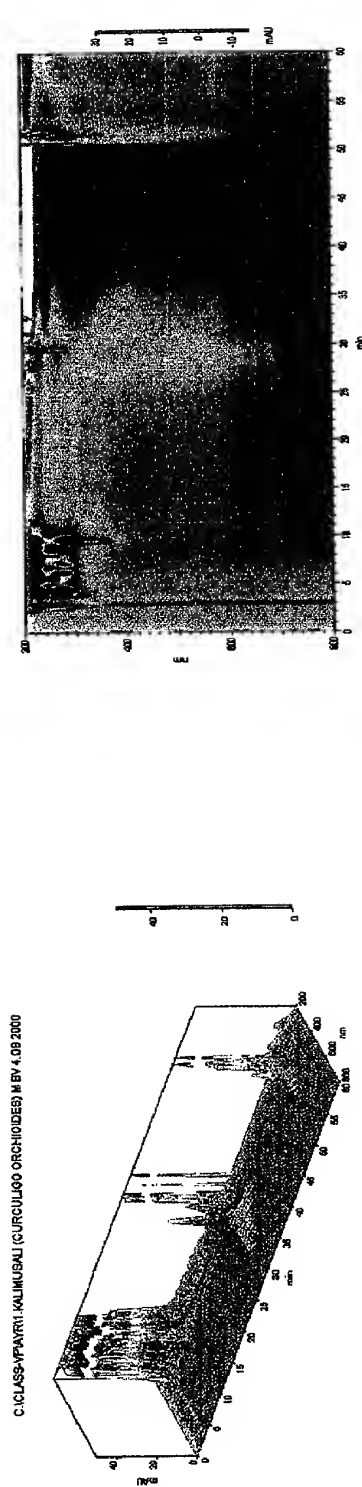


MAHALAKSHMI VILAS RAS

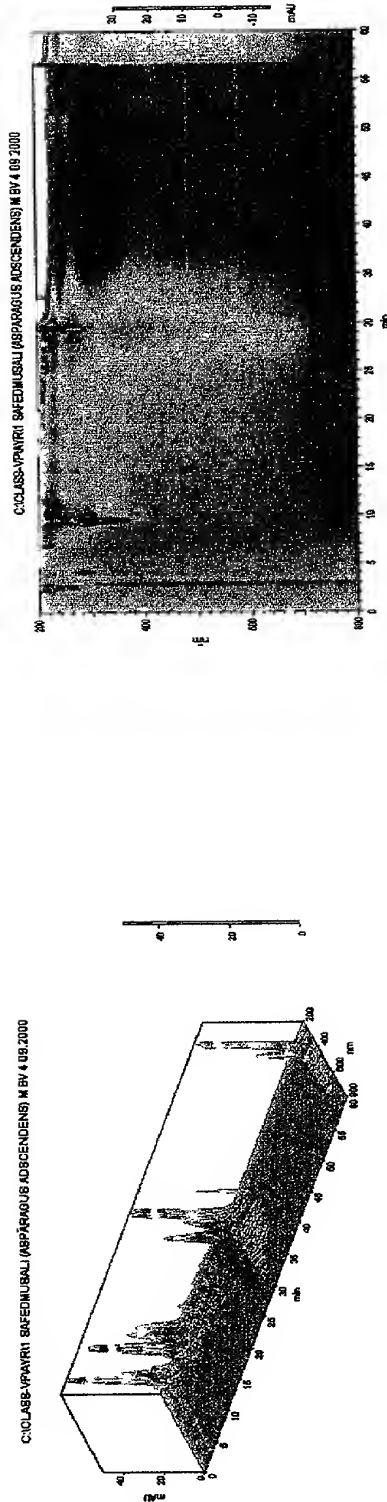
THE PRESENCE OF CONSTITUENTS IN ALL THREE ZONES
INDICATES THE SAID EFFICACY OF THE MEDICINES

Figure 21

Figure: MUSALI - A TRIDOSHA HARA MEDICINE

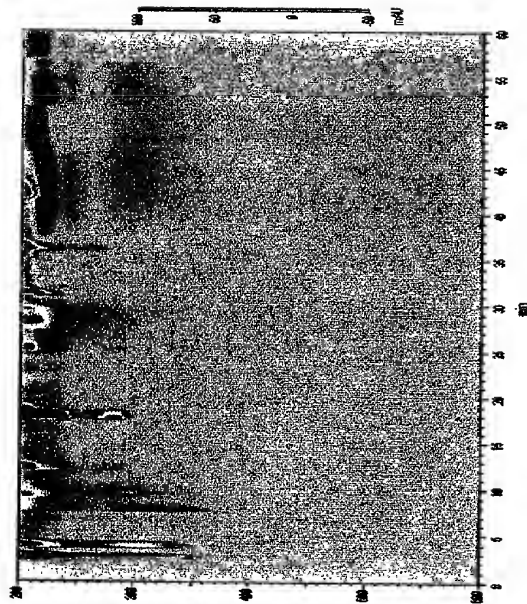


FINGER PRINTS OF CURCULIGO ORCHOIDIS (KALIMUSALI)



FINGER PRINTS OF ASPARGUS ADESCENDENS (SAFED MUSALI)

PIPER BEETLE EXAMPLE



BEETLE LEAVES FROM COASTAL

ANDHRA PRADESH

Aurones and Chareones (flavonoids) are antioxidants. A combinatorial library of _____ can be seen.



BEETLE LEAVES FROM

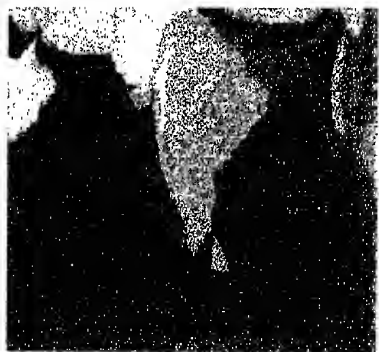
CALCUTTA

THE FLAVONONIDS PRESENT IN THE TIME RANGE OF 30 - 40 MIN SHOWS THE INFLUENCE OF GENOTYPIC, PHENOTYPIC VARIATIONS AND ECOLOGICAL FACTORS ON THE CHEMICAL CONSTITUENTS OF THE PLANT MATERIAL OF DIFFERENT

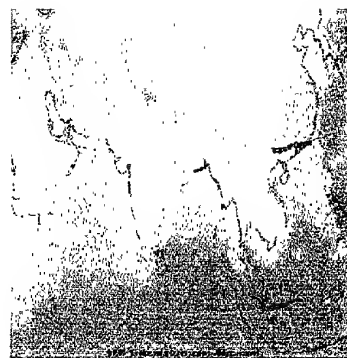
TROPICAL ZONES OF THE COUNTRY

Figure 25

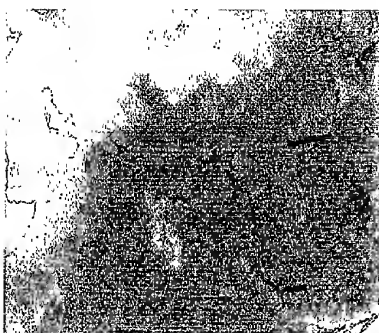
Figure : Indian Eco-regions



India-Eco-regions



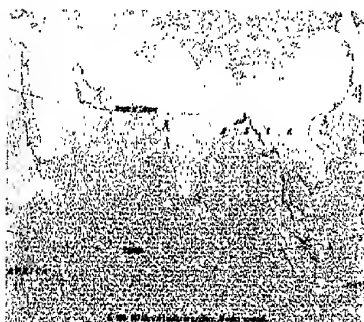
India-Precipitations-January



India-Precipitation-July



India-India precipitation -Annual



India-Temperature-January

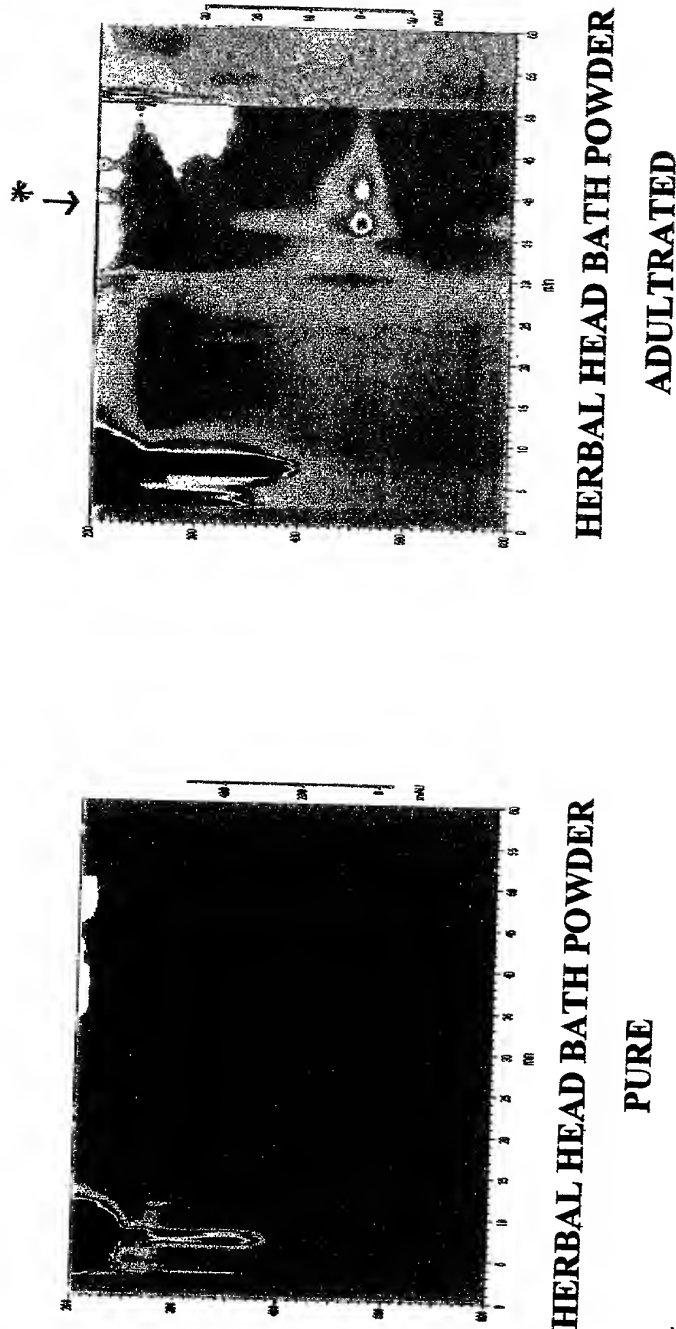


India-Climate map

The above satellite images show that India has more than one tropical zone. The variations in the seasons will have an impact on the chemical constituents of the herbal medicines of different parts of the country. This applies for the entire world. This emphasizes the need of standardization of herbal medicines.

Figure 26

HERBAL HEAD BATH POWDERS



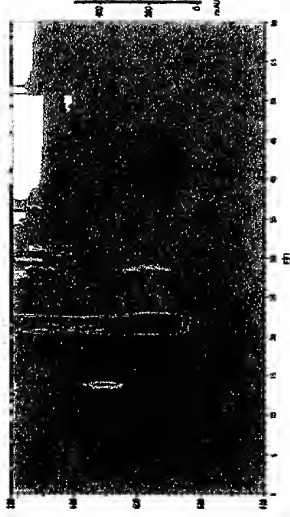
THE ABOVE FINGER PRINTS SHOW THE ADULTERATION OF DETERGENTS IN THE SAID HERBAL COSMETIC PRODUCT. THUS FINGER PRINTING HELPS TO MONITOR THE ADULTERATIONS IN VARIOUS COMMERCIAL HERBAL PRODUCTS

- * → Constituents at 35-40 minutes are highly basic and soapy in nature . The pure detergent sample are eluting at the same time.

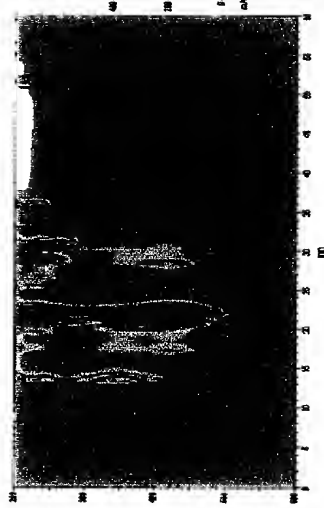
TURMERIC EXAMPLE



CURCUMA LONGA BRAND - 1



CURCUMA LONGA BRAND - 2



CURCUMA LONGA BRAND - 3



CURCUMA LONGA
(NATURAL RHIZOME)

THE FINGER PRINTS OF THE SAME HERBAL PRODUCT IN DIFFERENT FORMS HELPS IN THE QUALITY CONTROL OF THE NATURAL SUBSTANCES. THE COMMON PEAKS AT 20 MIN IN NATURAL AND COMMERCIAL PRODUCTS INDICATES THE PRESENCE OF THE YELLOW COLORED MOLECULES IN ALL.

Figure 29

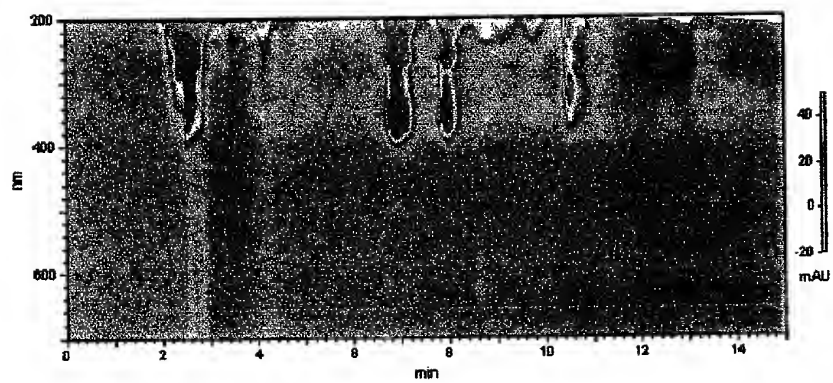
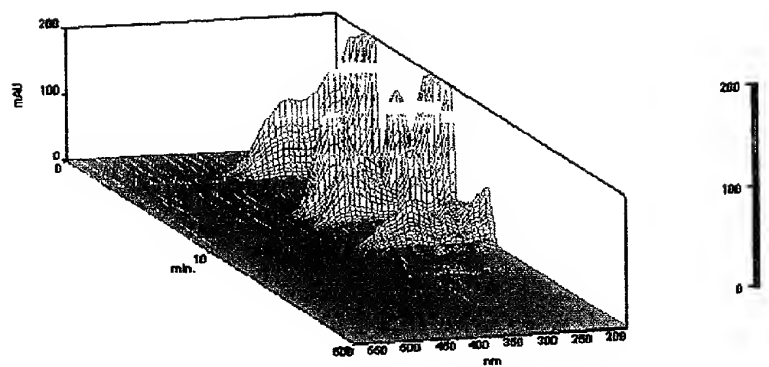


Figure 30

8

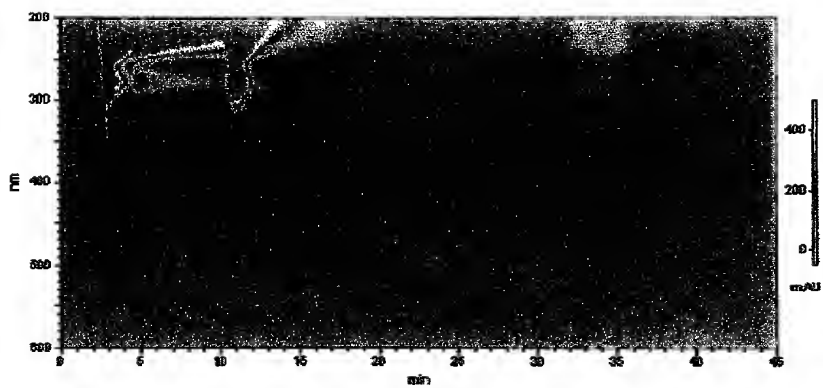
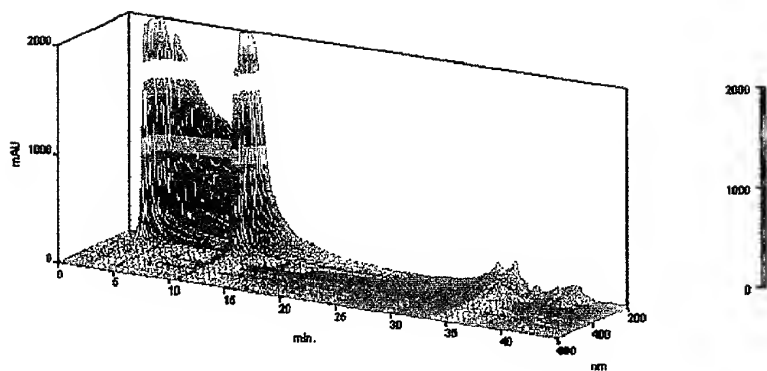


Figure 31

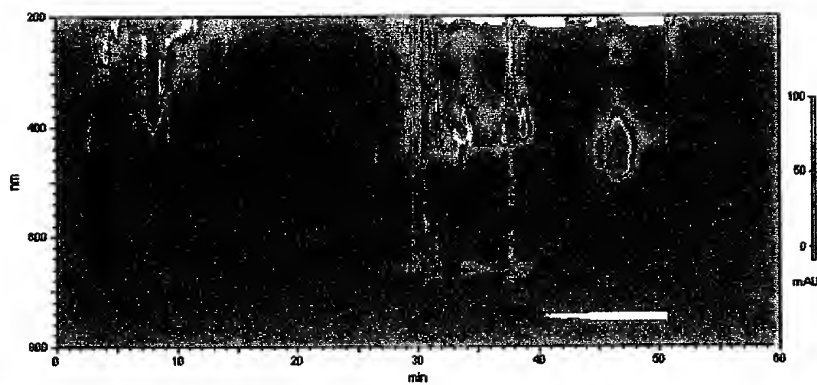
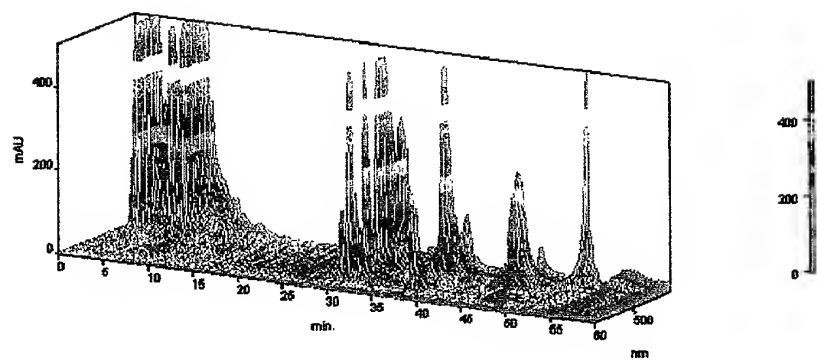


Figure 32

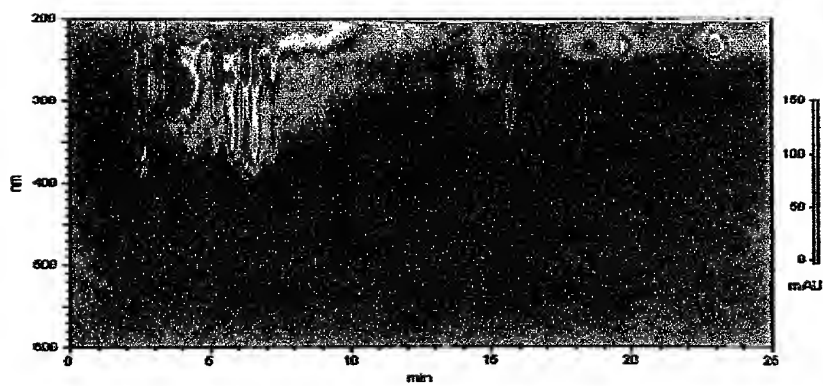
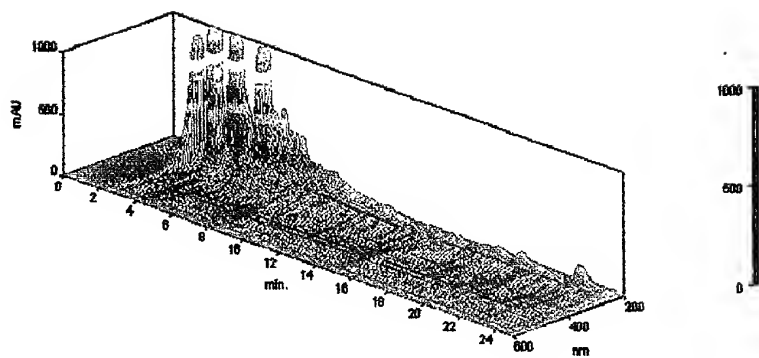


Figure 33

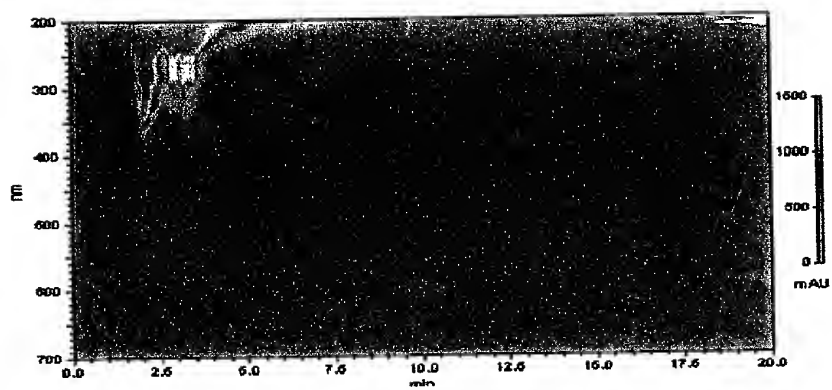
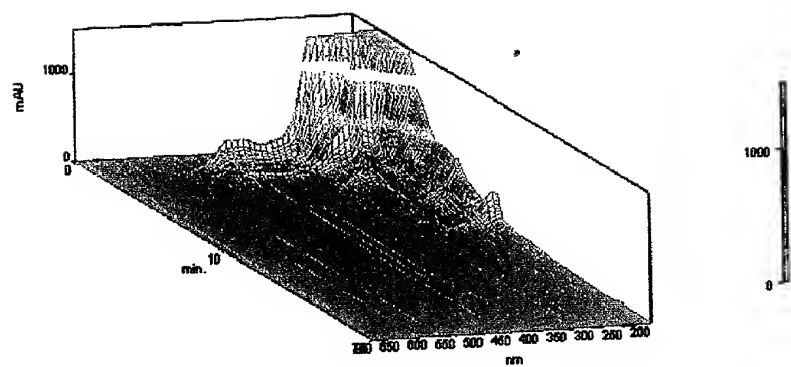


Figure 34

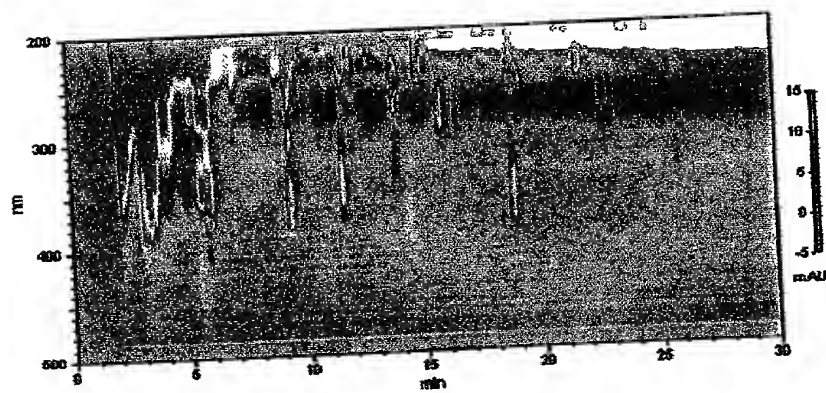
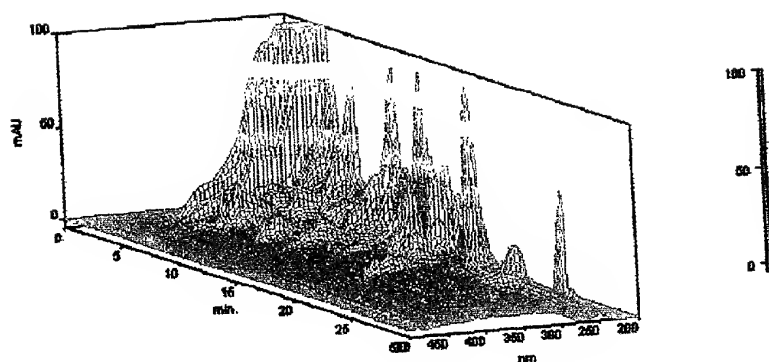


Figure 35

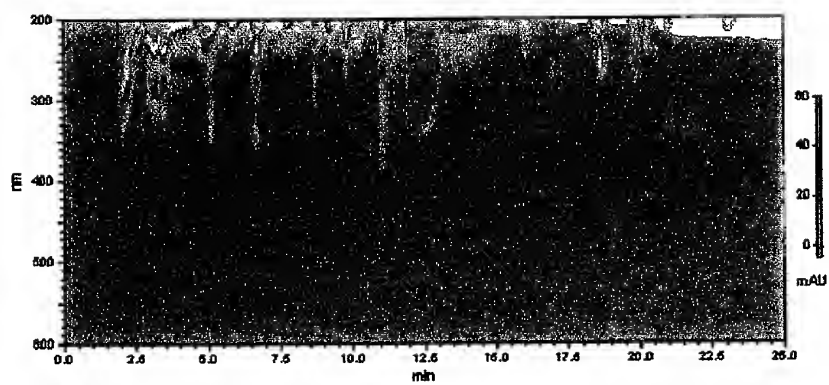
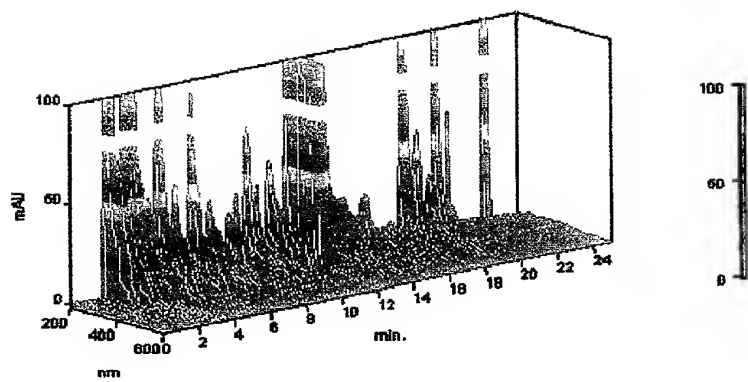


Figure 36

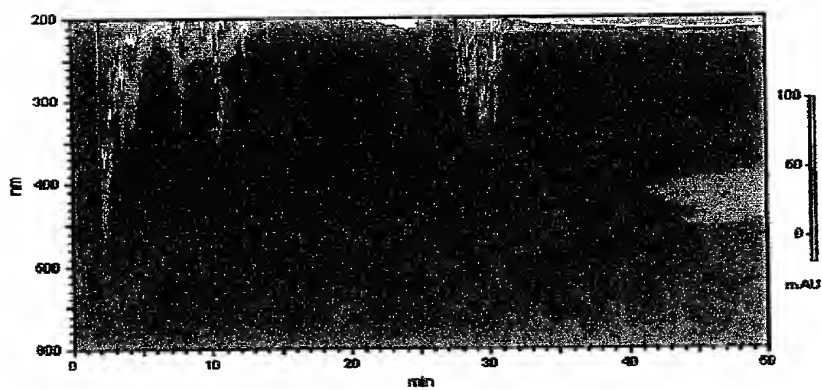
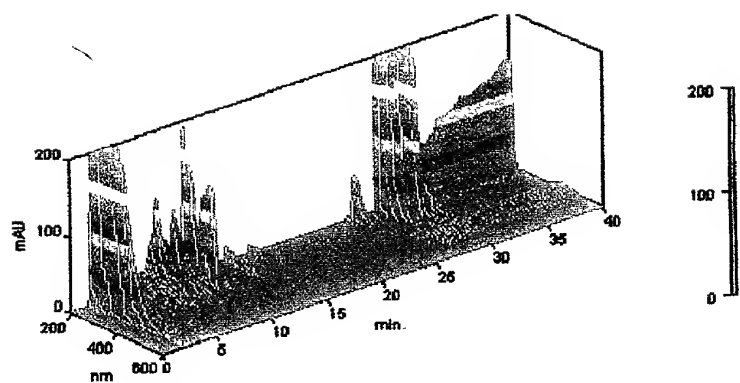


Figure 37

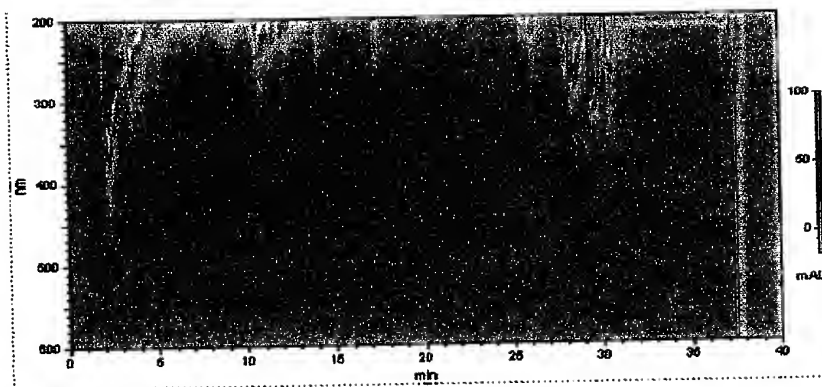
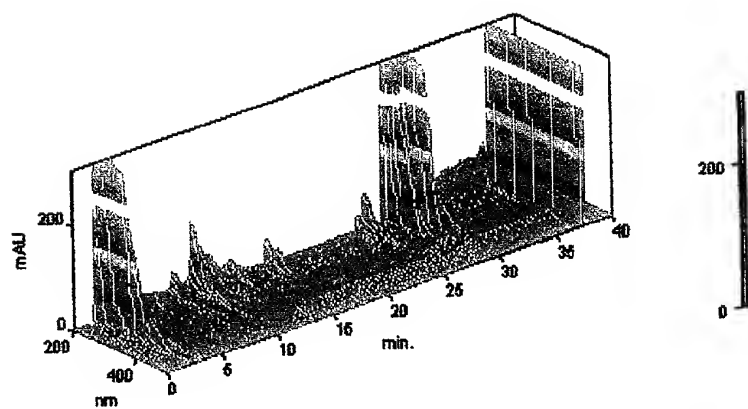


Figure 38

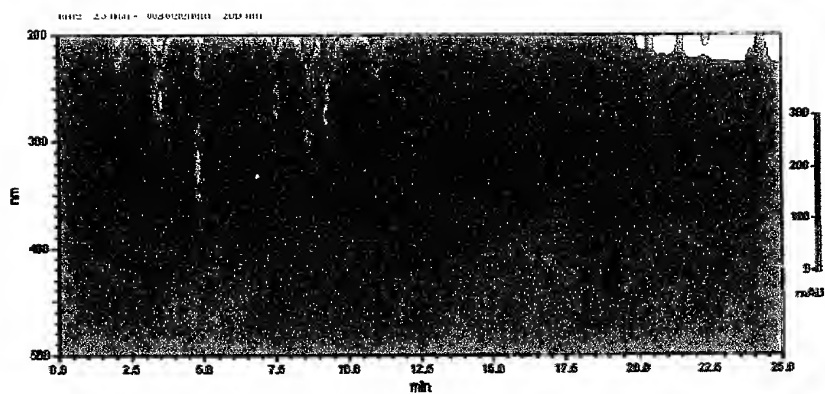
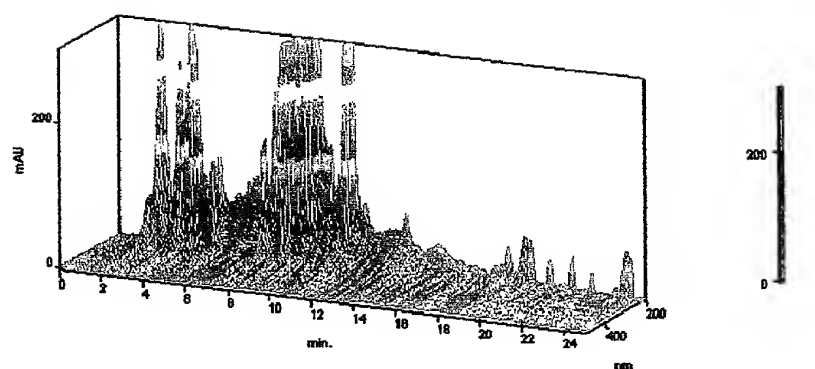


Figure 39

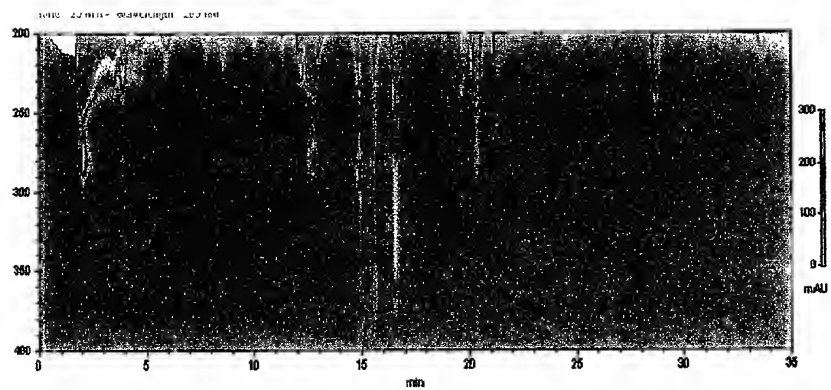
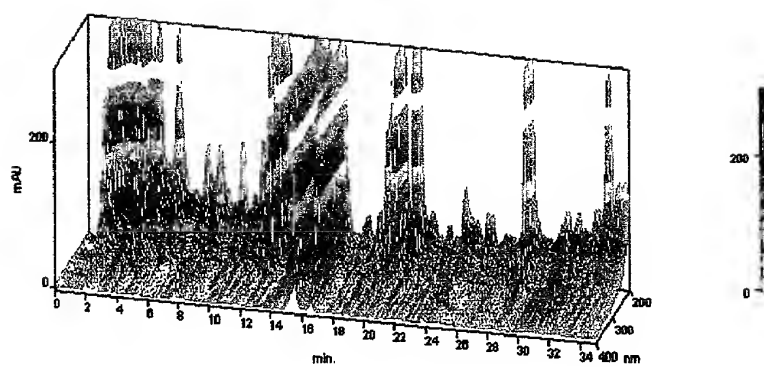


Figure 40

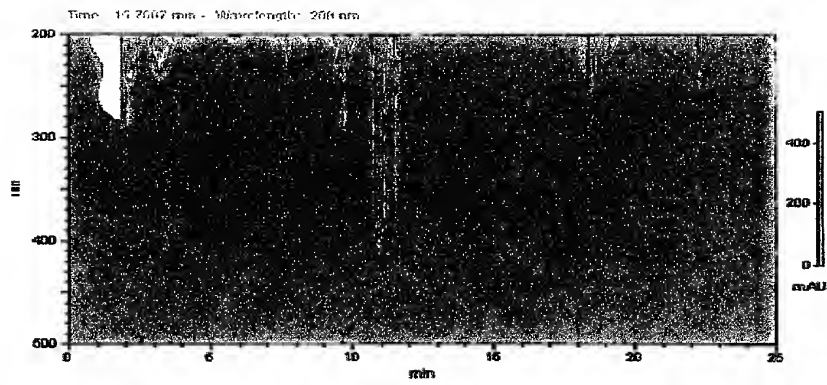
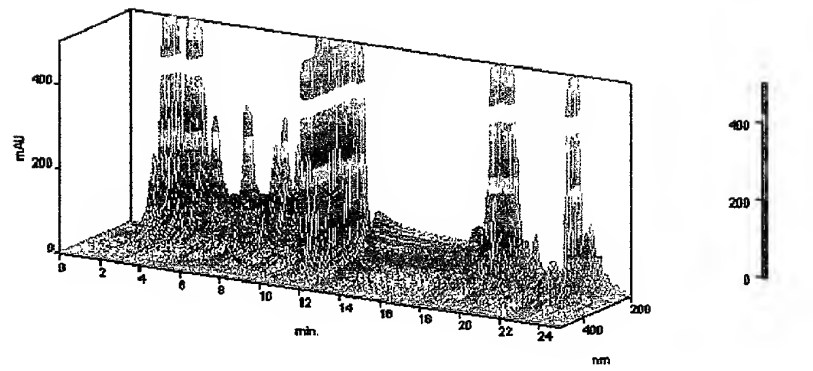


Figure 41

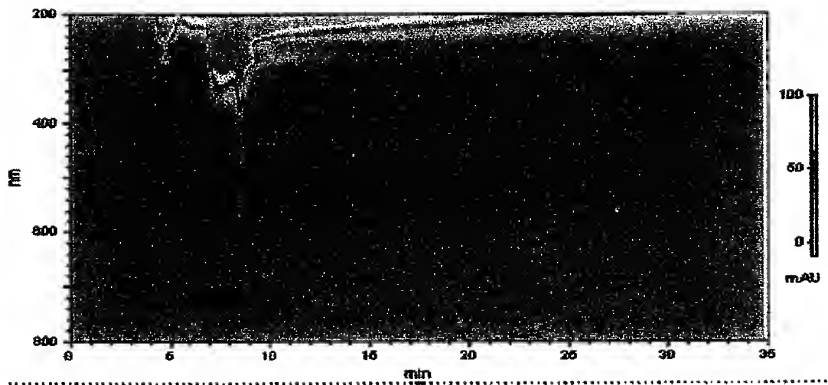
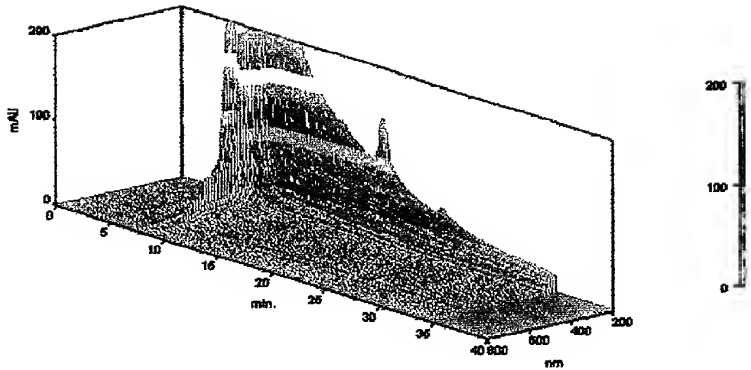


Figure 42

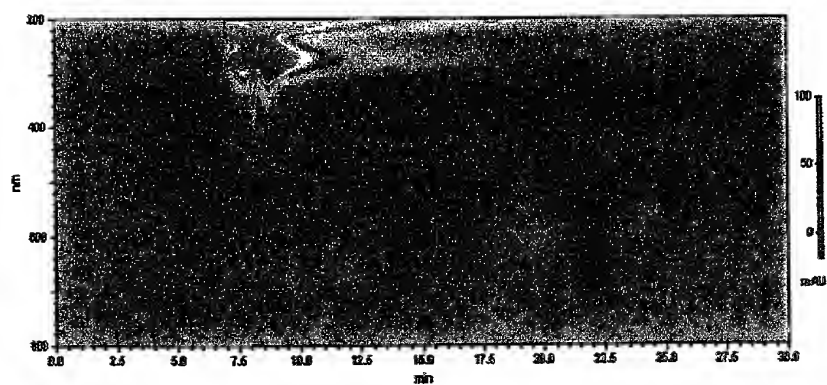
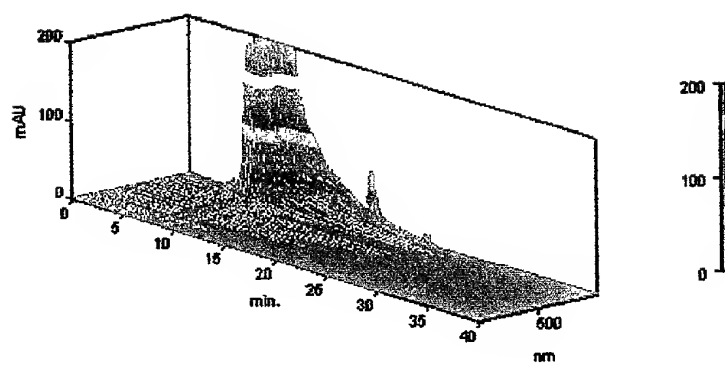


Figure 43

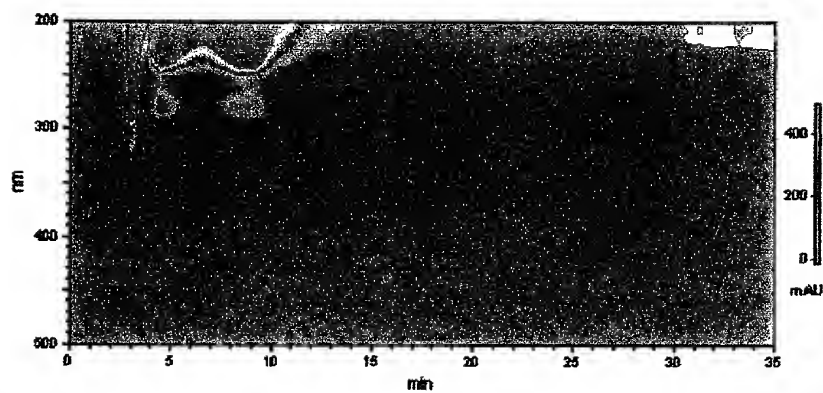
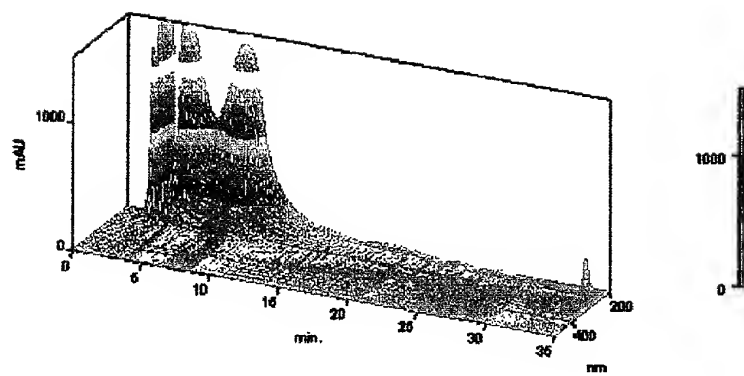


Figure 44

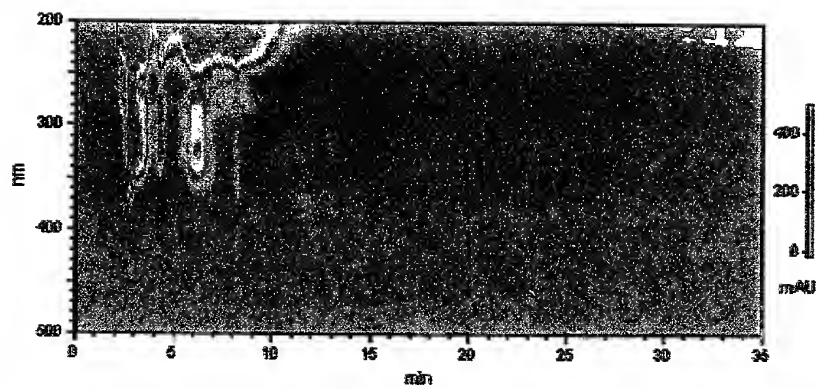
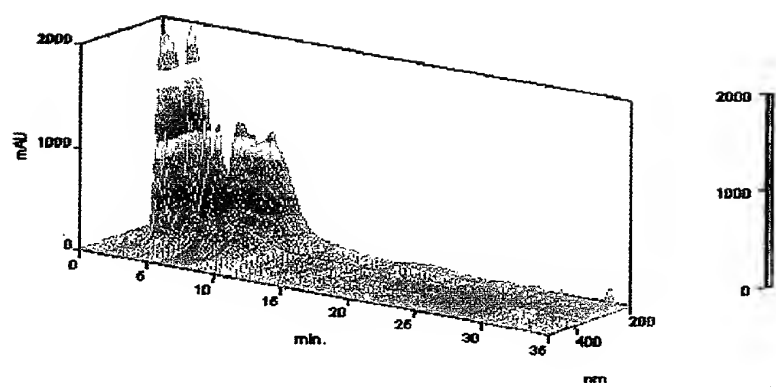


Figure 45

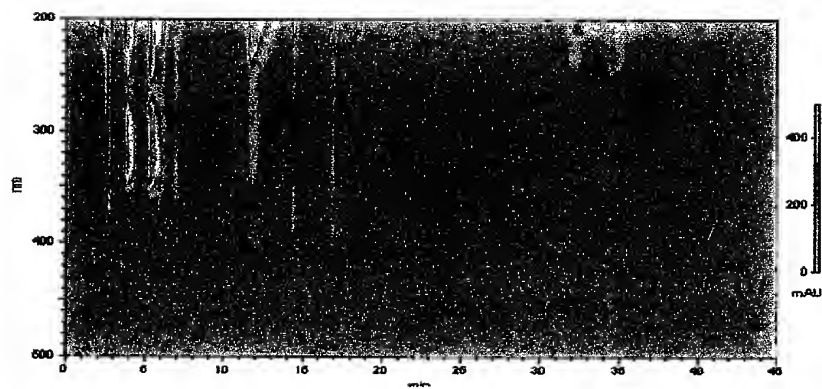
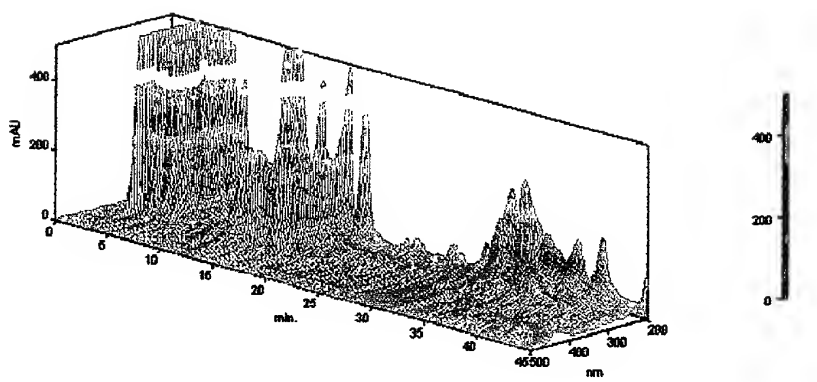


Figure 46

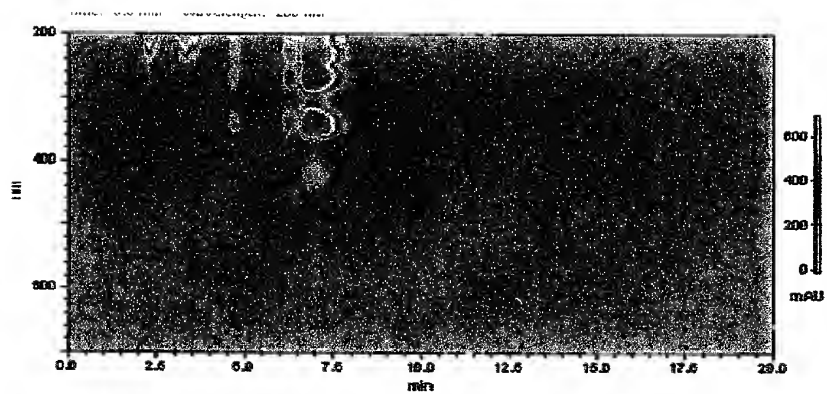
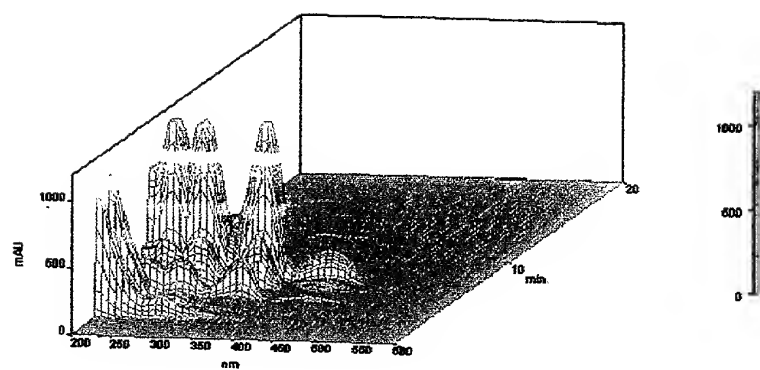


Figure 47

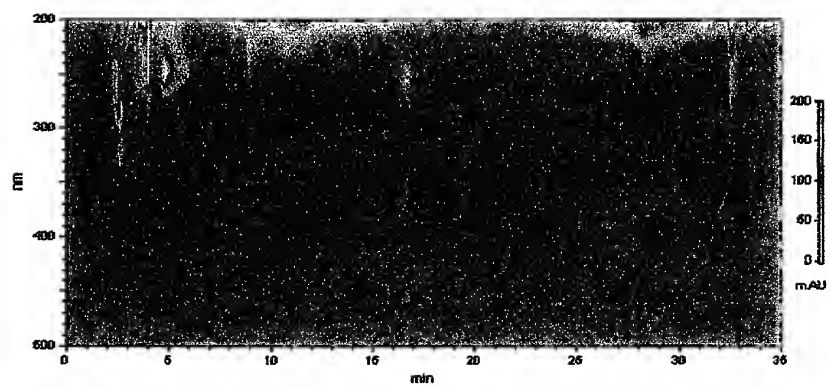
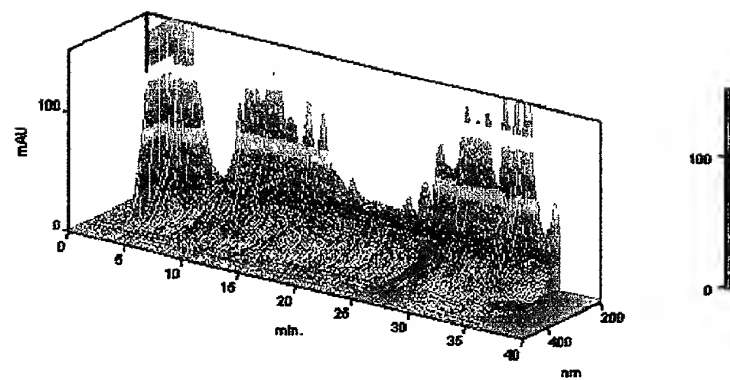


Figure 48

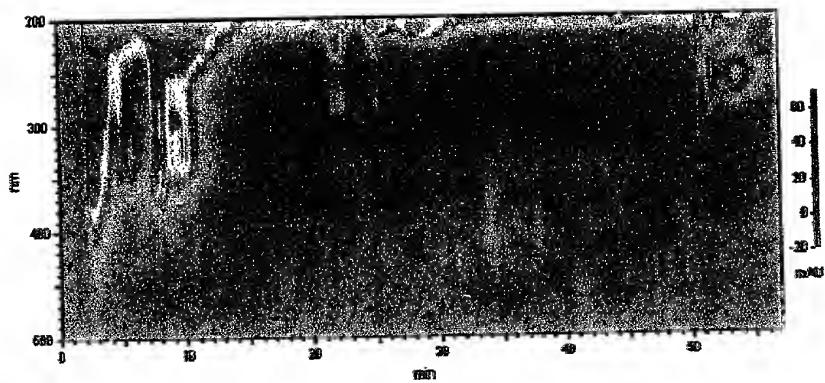
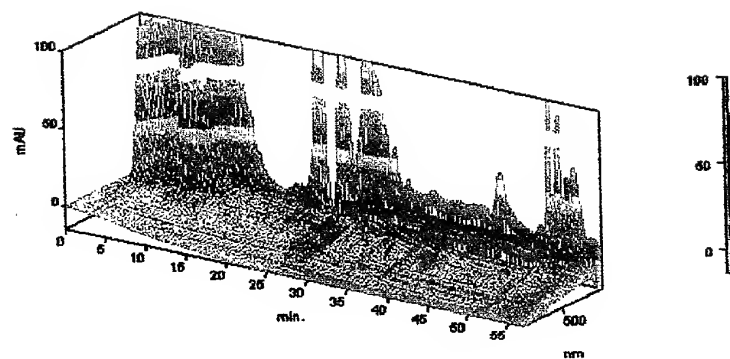


Figure 49

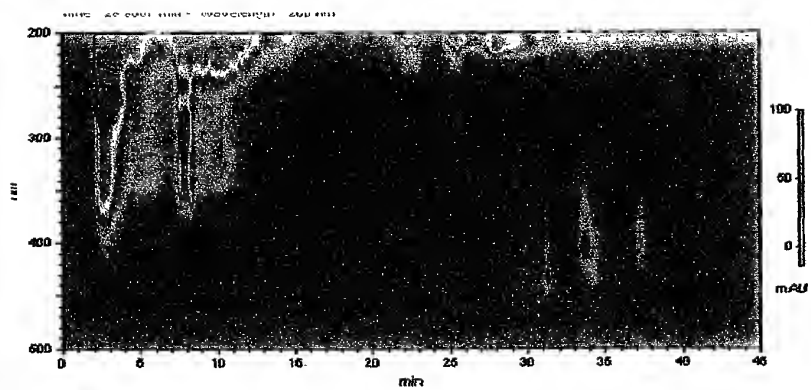
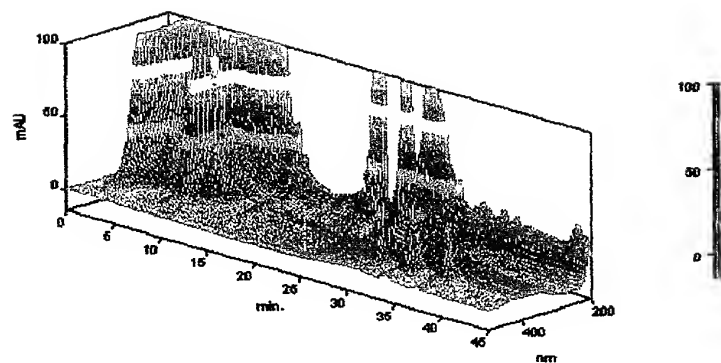


Figure 50

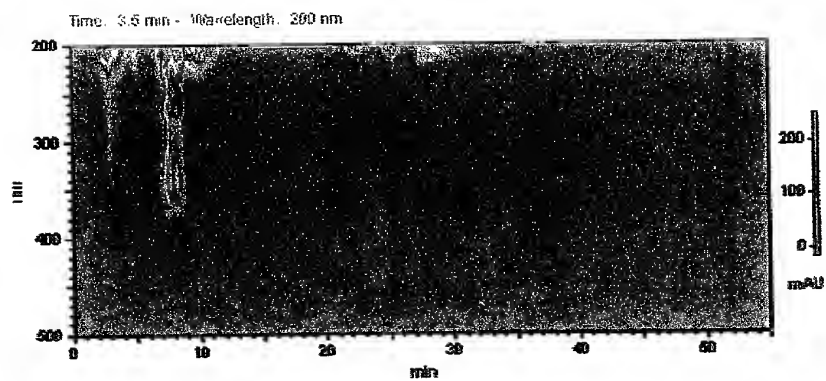
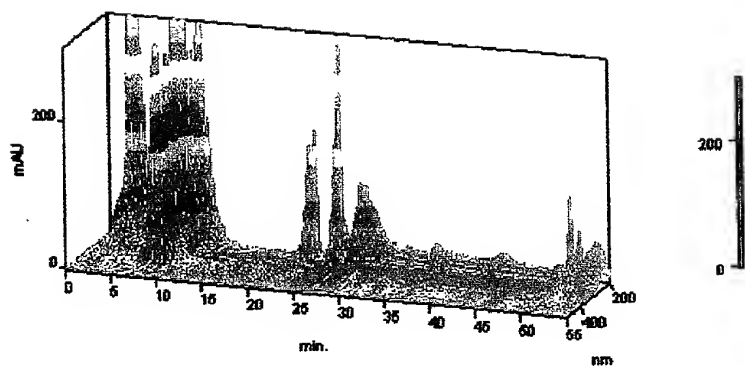


Figure 51

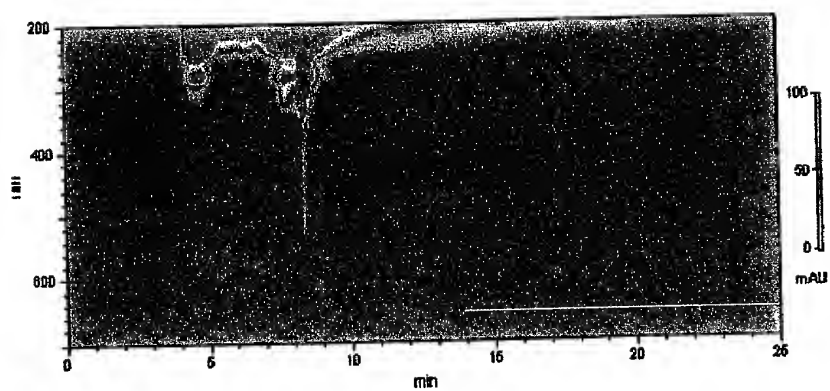
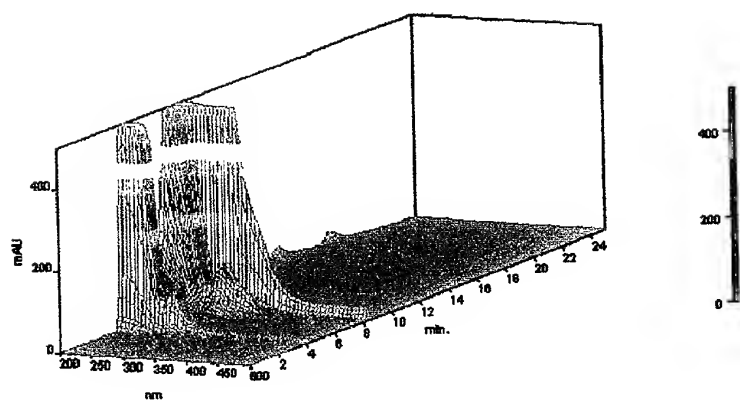


Figure 52

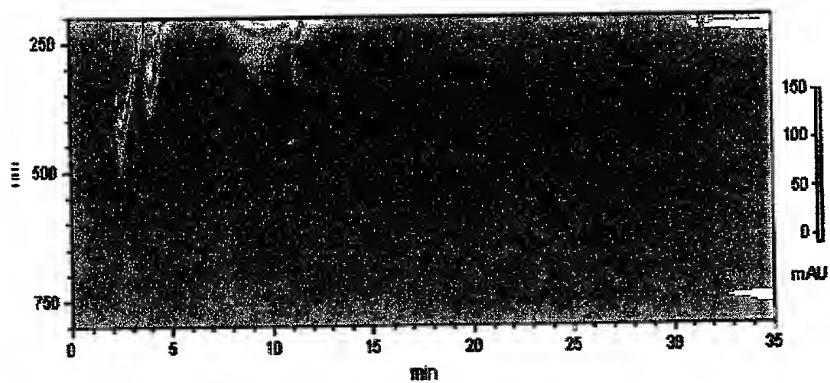
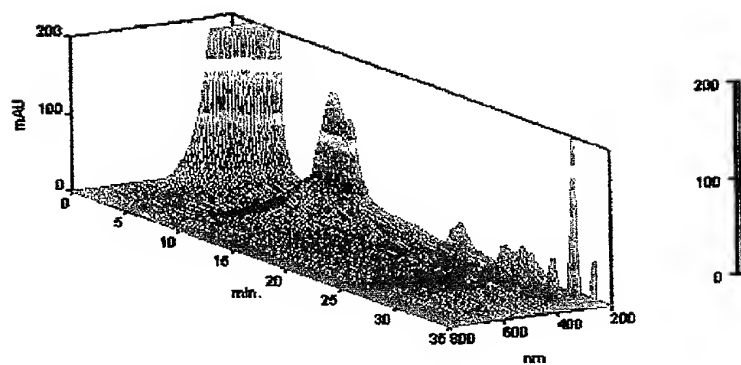


Figure 52 shows the 3D surface plot and 2D heatmap of the absorbance (mAU) as a function of time (min) and wavelength (nm). The 3D plot shows a prominent peak at approximately 15 minutes and 250 nm, with a secondary, smaller peak around 25 minutes and 250 nm. The 2D heatmap shows a strong, dark region of high absorbance at low wavelengths (below 300 nm) and low time values, which fades as the wavelength increases. A distinct vertical band of higher absorbance is visible around 15 minutes across the entire wavelength range.

1

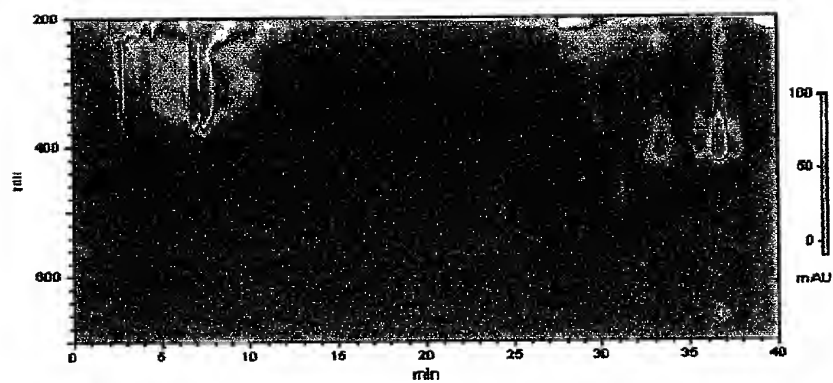
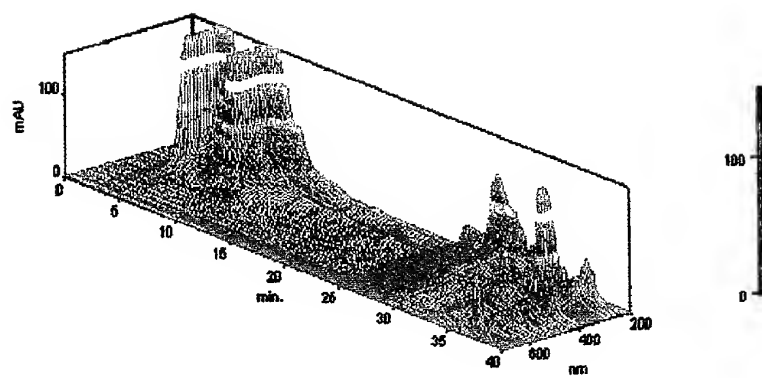


Figure 54

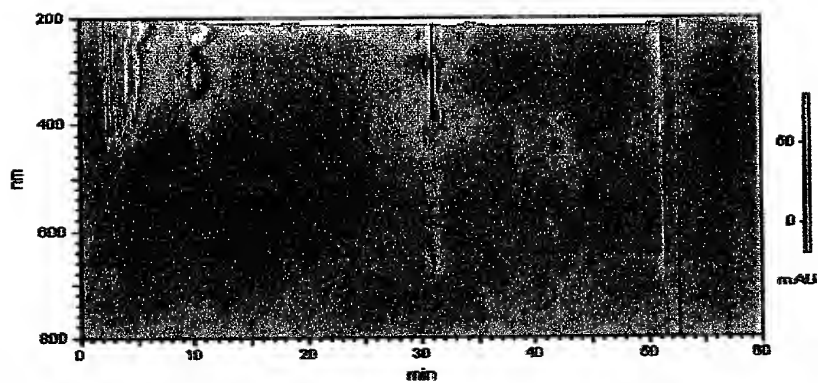
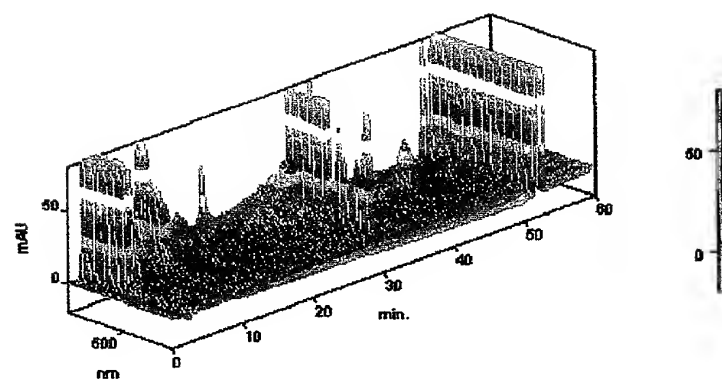
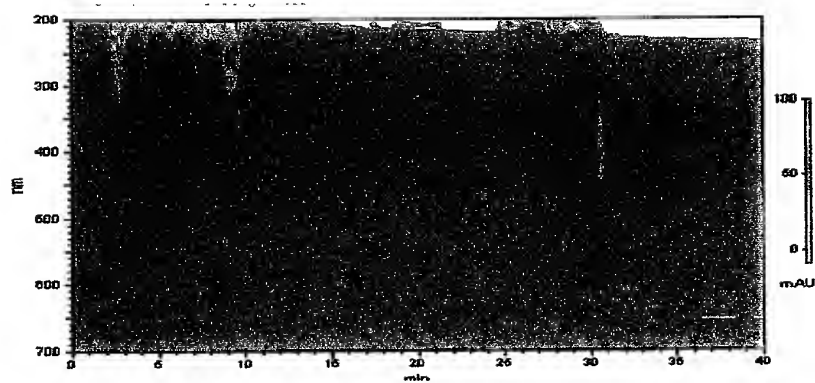
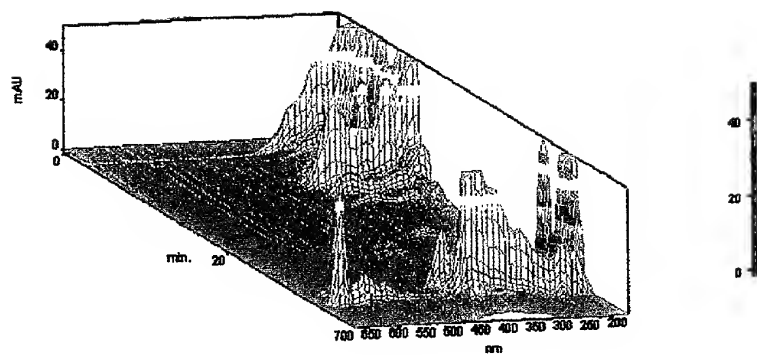
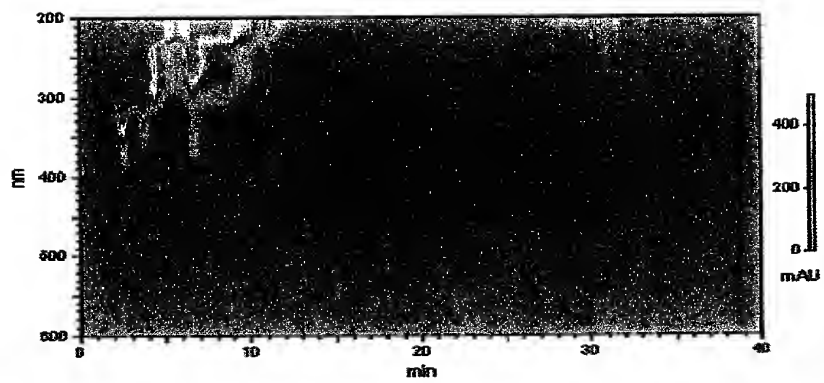
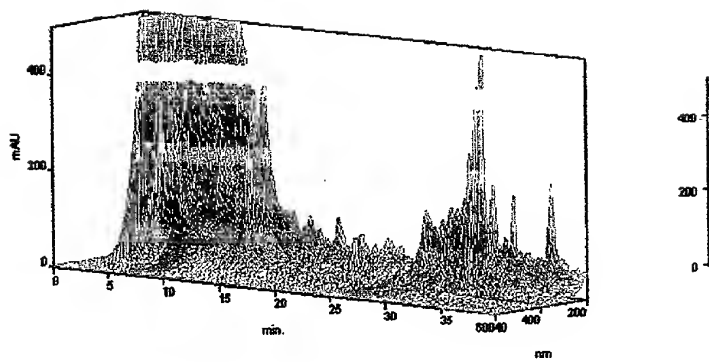


Figure 55



λ	μ	ν	ρ	σ	τ	θ	ϕ	ψ	χ	η	ξ	ζ	δ	γ	β	α
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102
103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119
120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136
137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153
154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187
188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204
205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221
222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238
239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255
256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272
273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289
290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306
307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323
324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357
358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374
375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391
392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408
409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425</

Figure 56



1

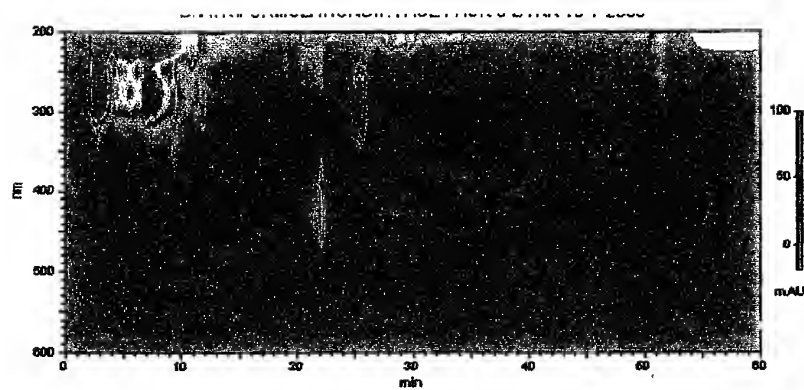
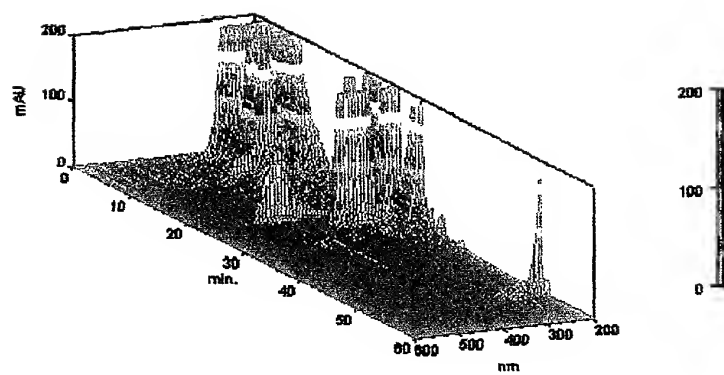


Figure 58

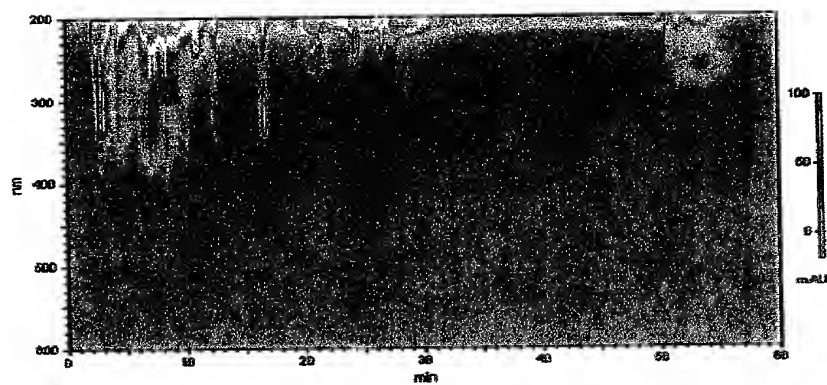
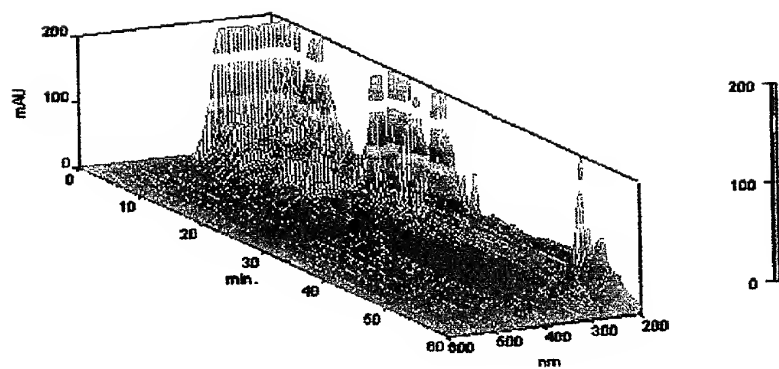
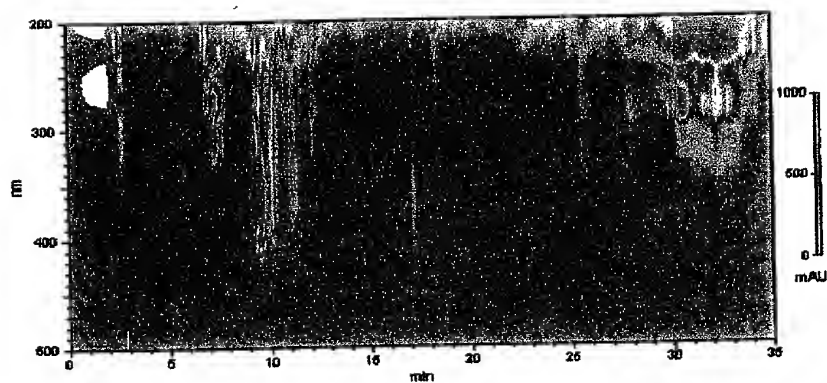
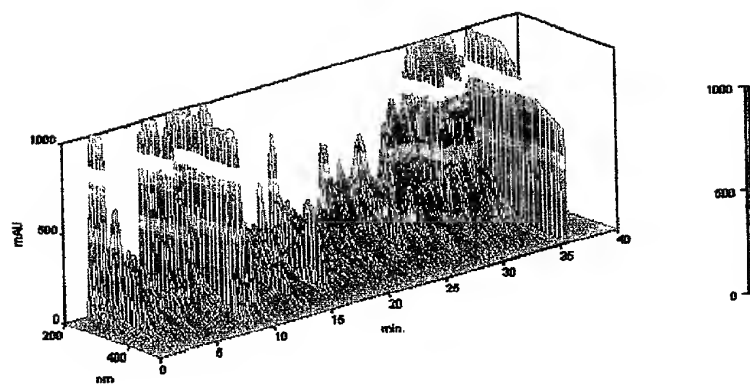


Figure 59



1

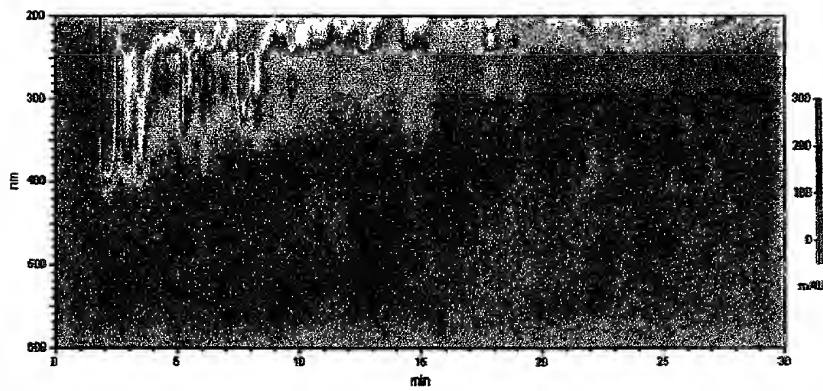
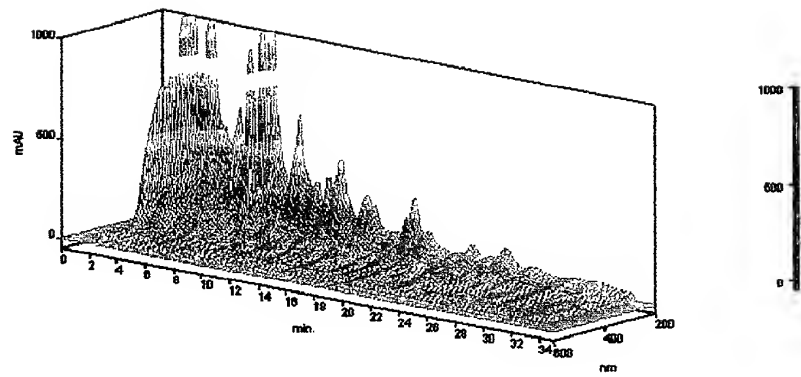


Figure 61

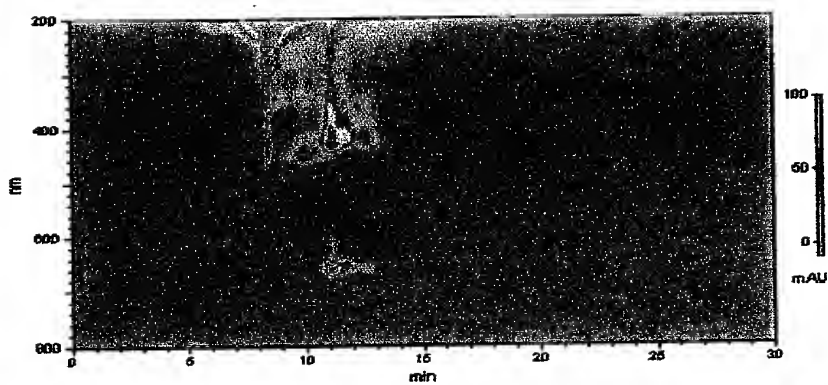
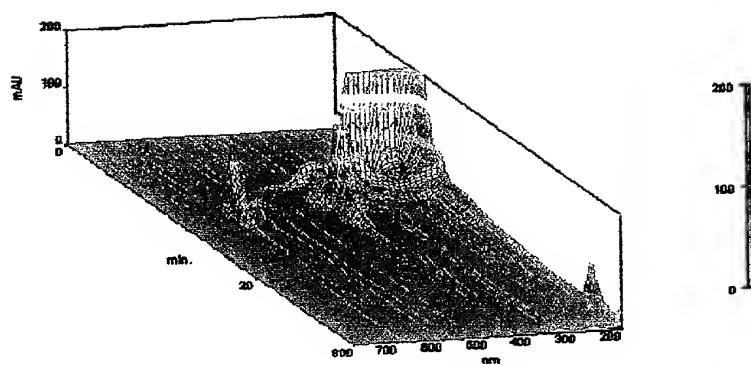


Figure 62

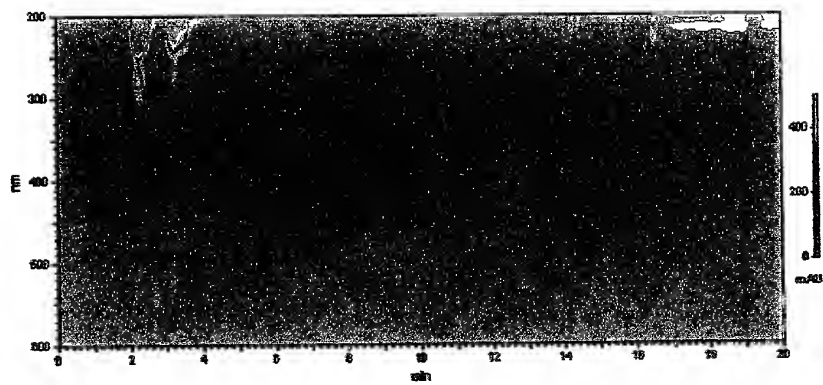
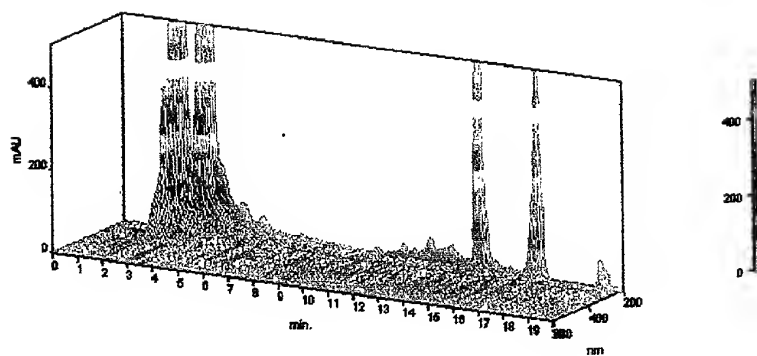


FIGURE 63

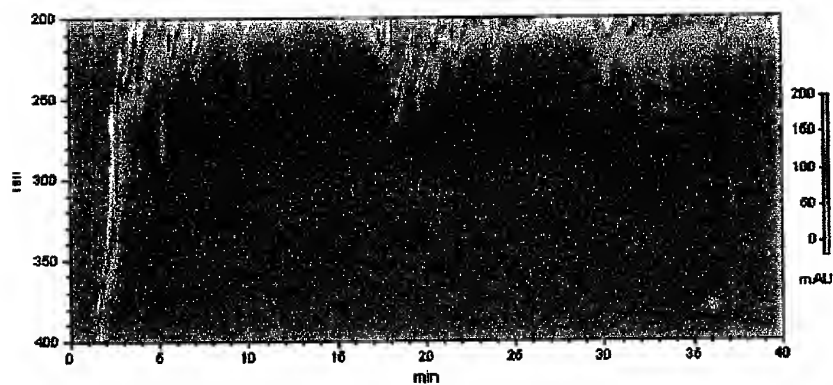
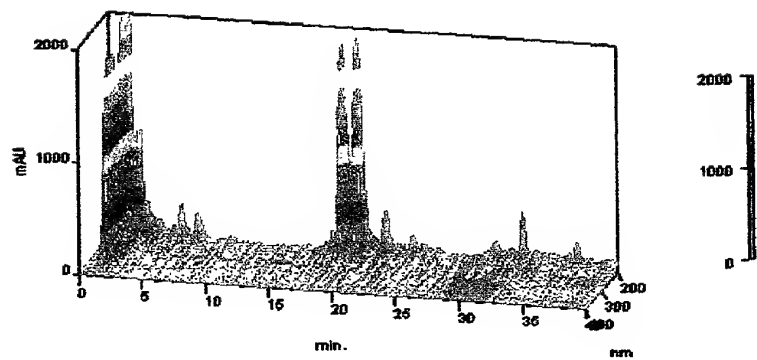
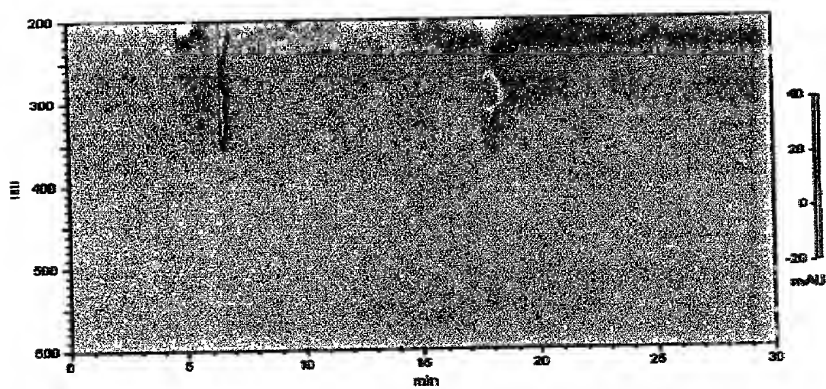
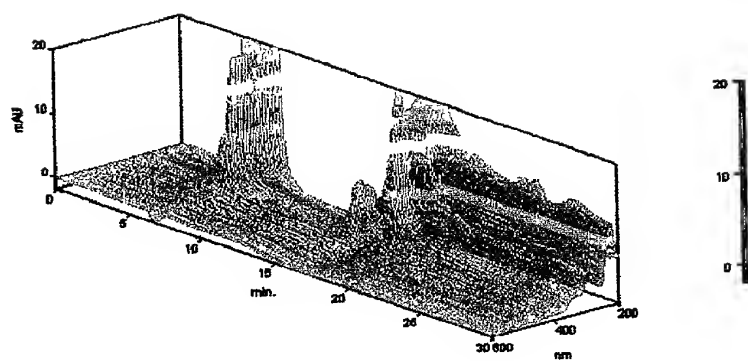


Figure 64



1

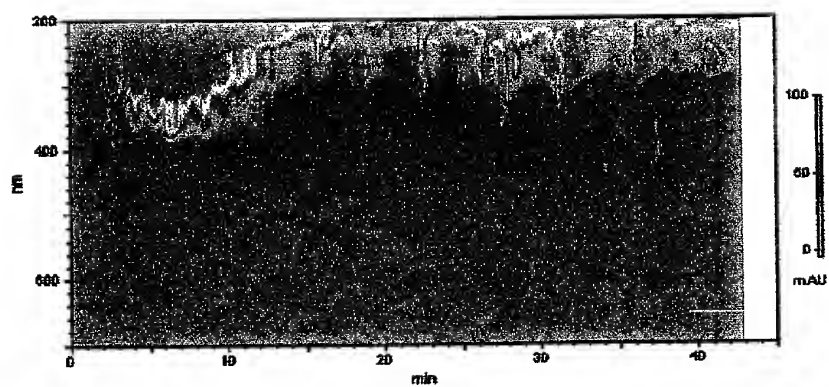
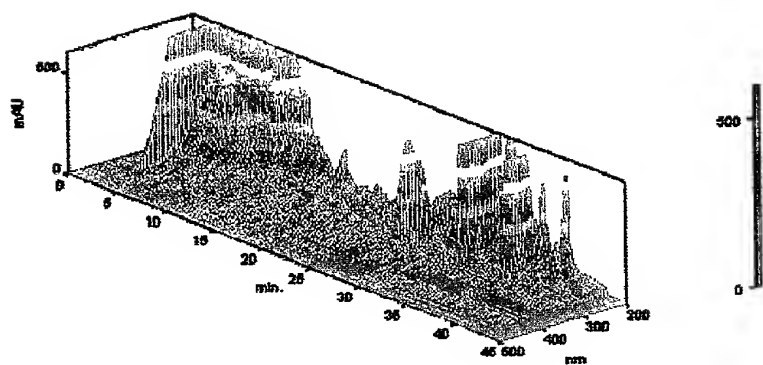


Figure 66

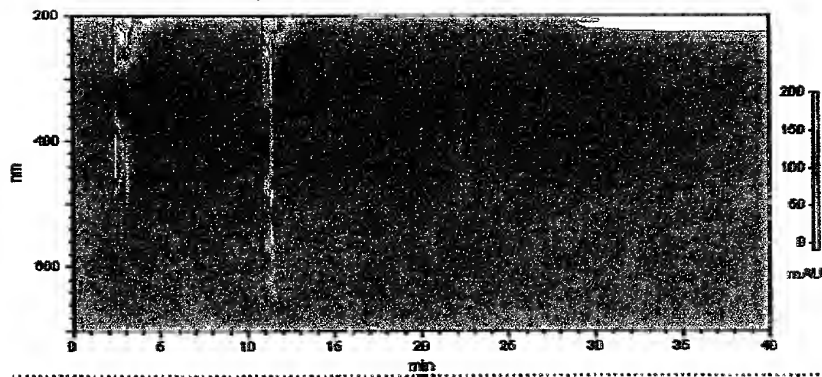
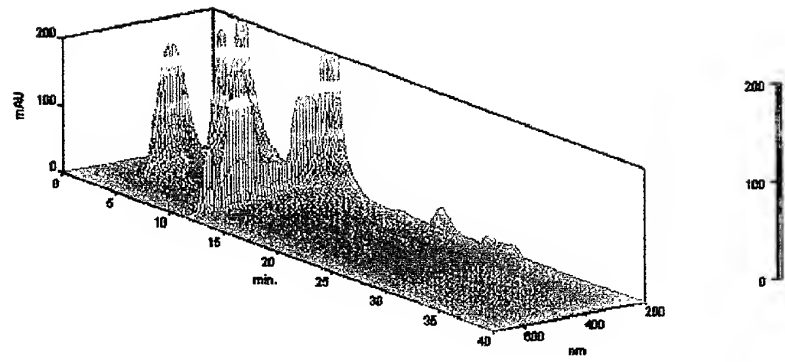


Figure 67

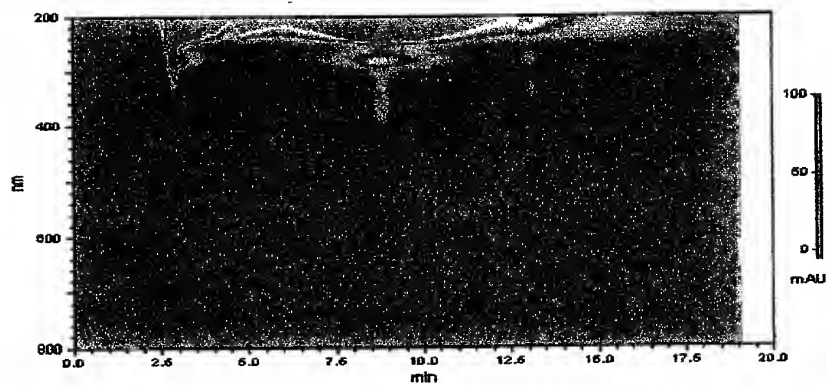
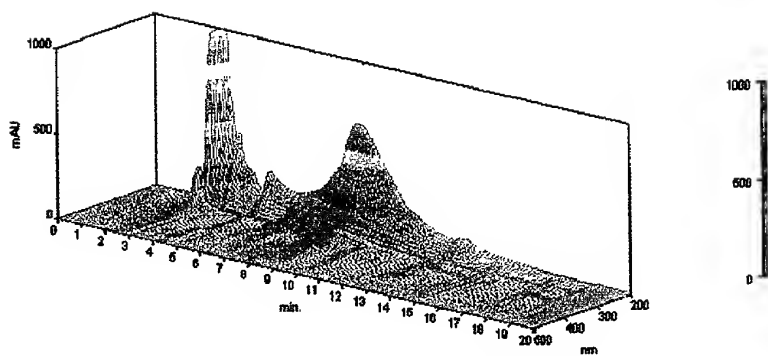


Figure 68

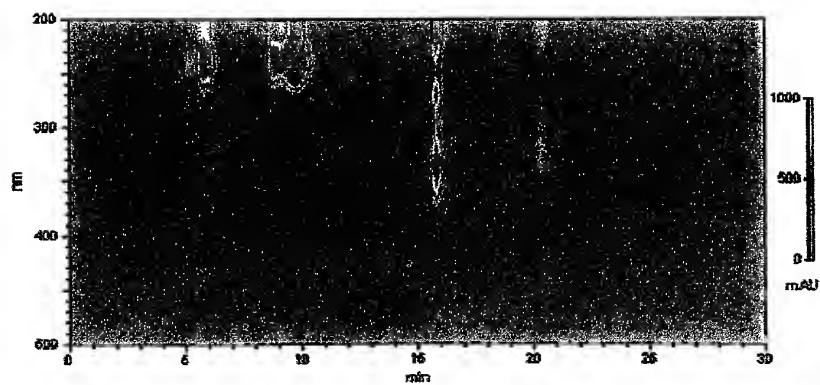
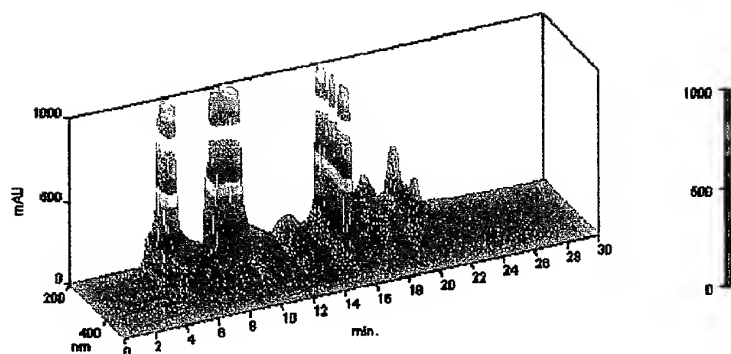
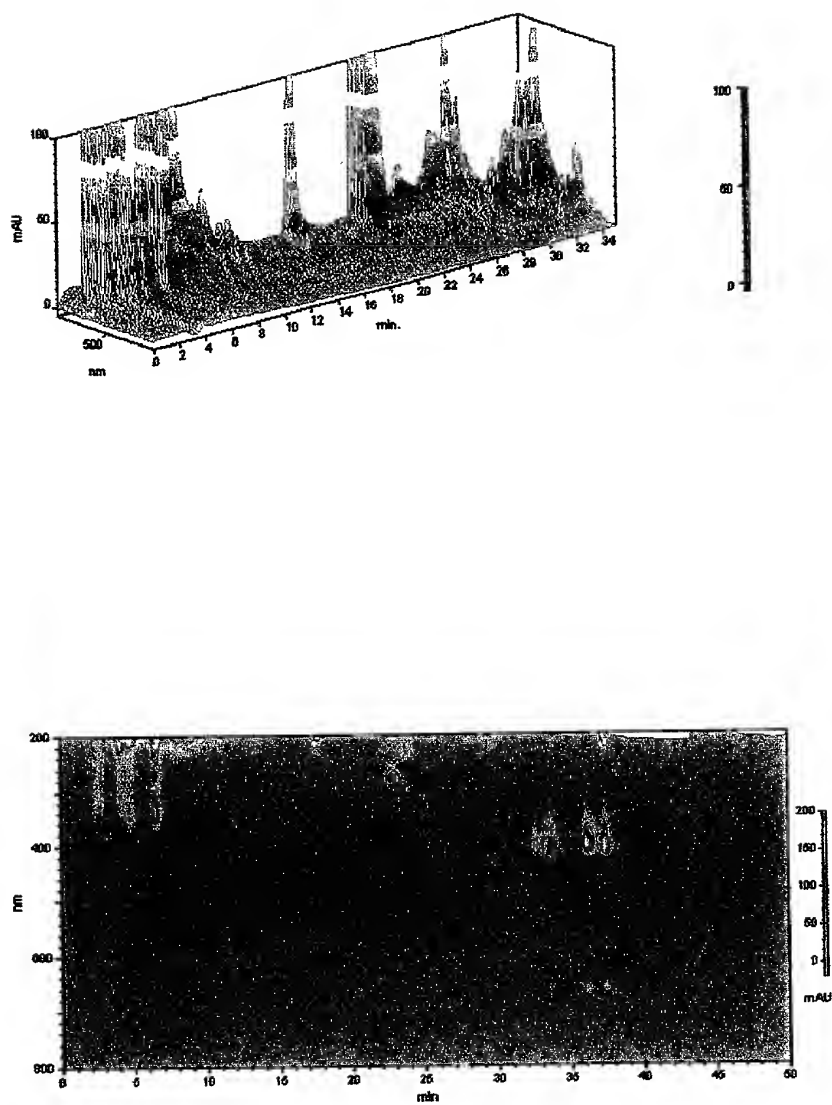


Figure 69



h. i. k. l. m. n. o. p. q. r. s. t. u. v. w. x. y. z. aa. ab. ac. ad. ae. af. ag. ah. ai. aj. ak. al. am. an. ao. ap. aq. ar. as. at. au. av. aw. ax. ay. az. ba. bb. bc. bd. be. bf. bg. bh. bi. bj. bk. bl. bm. bn. bo. bp. bq. br. bs. bt. bu. bv. bw. bx. by. bz. ca. cb. cc. cd. ce. cf. cg. ch. ci. cj. ck. cl. cm. cn. co. cp. cq. cr. cs. ct. cu. cv. cw. cx. cy. cz. da. db. dc. dd. de. df. dg. dh. di. dj. dk. dl. dm. dn. do. dp. dq. dr. ds. dt. du. dv. dw. dx. dy. dz. ea. eb. ec. ed. ee. ef. eg. eh. ei. ej. ek. el. em. en. eo. ep. eq. er. es. et. eu. ev. ew. ex. ey. ez. fa. fb. fc. fd. fe. ff. fg. fh. fi. fj. fk. fl. fm. fn. fo. fp. fq. fr. fs. ft. fu. fv. fw. fx. fy. fz. ga. gb. gc. gd. ge. gf. gg. gh. gi. gj. gk. gl. gm. gn. go. gp. gq. gr. gs. gt. gu. gv. gw. gx. gy. gz. ha. hb. hc. hd. he. hf. hg. hh. hi. hj. hk. hl. hm. hn. ho. hp. hq. hr. hs. ht. hu. hv. hw. hx. hy. hz. ia. ib. ic. id. ie. if. ig. ih. ii. ij. ik. il. im. in. io. ip. iq. ir. is. it. iu. iv. iw. ix. iy. iz. ja. jb. jc. jd. je. jf. jg. jh. ji. jj. jk. jl. jm. jn. jo. jp. jq. jr. js. jt. ju. jv. jw. jx. jy. jz. ka. kb. kc. kd. ke. kf. kg. kh. ki. kj. kk. kl. km. kn. ko. kp. kq. kr. ks. kt. ku. kv. kw. kx. ky. kz. la. lb. lc. ld. le. lf. lg. lh. li. lj. lk. ll. lm. ln. lo. lp. lq. lr. ls. lt. lu. lv. lw. lx. ly. lz. ma. mb. mc. md. me. mf. mg. mh. mi. mj. mk. ml. mn. mo. mp. mq. mr. ms. mt. mu. mv. mw. mx. my. mz. na. nb. nc. nd. ne. nf. ng. nh. ni. nj. nk. nl. nm. no. np. nq. nr. ns. nt. nu. nv. nw. nx. ny. nz. oa. ob. oc. od. oe. of. og. oh. oi. oj. ok. ol. om. on. oo. op. oq. or. os. ot. ou. ov. ow. ox. oy. oz. pa. pb. pc. pd. pe. pf. pg. ph. pi. pj. pk. pl. pm. pn. po. pp. pq. pr. ps. pt. pu. pv. pw. px. py. pz. qa. qb. qc. qd. qe. qf. qg. qh. qi. qj. qk. ql. qm. qn. qo. qp. qq. qr. qs. qt. qu. qv. qw. qx. qy. qz. ra. rb. rc. rd. re. rf. rg. rh. ri. rj. rk. rl. rm. rn. ro. rp. rq. rr. rs. rt. ru. rv. rw. rx. ry. rz. sa. sb. sc. sd. se. sf. sg. sh. si. sj. sk. sl. sm. sn. so. sp. sq. sr. ss. st. su. sv. sw. sx. sy. sz. ta. tb. tc. td. te. tf. tg. th. ti. tj. tk. tl. tm. tn. to. tp. tq. tr. ts. tt. tu. tv. tw. tx. ty. tz. ua. ub. uc. ud. ue. uf. ug. uh. ui. uj. uk. ul. um. un. uo. up. uq. ur. us. ut. uu. uv. uw. ux. uy. uz. va. vb. vc. vd. ve. vf. vg. vh. vi. vj. vk. vl. vm. vn. vo. vp. vq. vr. vs. vt. vu. vv. vw. vx. vy. vz. wa. wb. wc. wd. we. wf. wg. wh. wi. wj. wk. wl. wm. wn. wo. wp. wq. wr. ws. wt. wu. wv. ww. wx. wy. wz. xa. xb. xc. xd. xe. xf. xg. xh. xi. xj. xk. xl. xm. xn. xo. xp. xq. xr. xs. xt. xu. xv. xw. xx. xy. xz. ya. yb. yc. yd. ye. yf. yg. yh. yi. yj. yk. yl. ym. yn. yo. yp. yq. yr. ys. yt. yu. yv. yw. yx. yy. yz. za. zb. zc. zd. ze. zf. zg. zh. zi. zj. zk. zl. zm. zn. zo. zp. zq. zr. zs. zt. zu. zv. zw. zx. zy. zz.

Figure 70

1

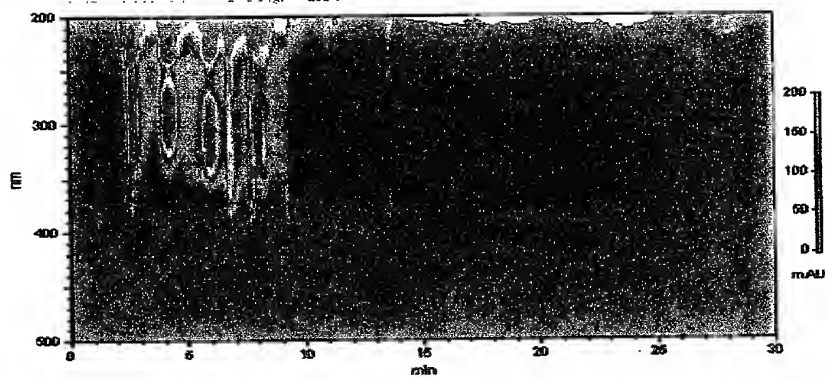
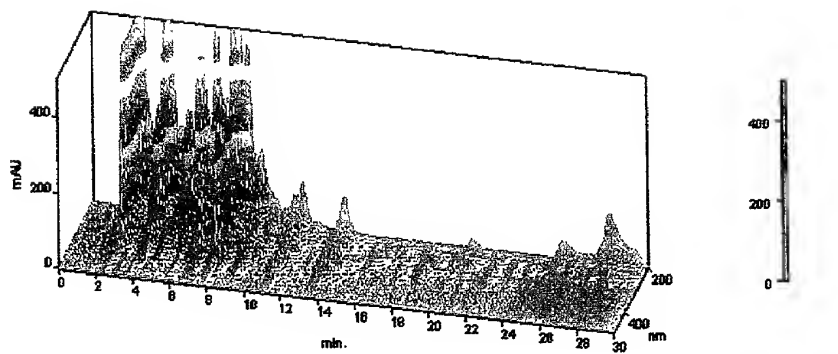


Figure 71

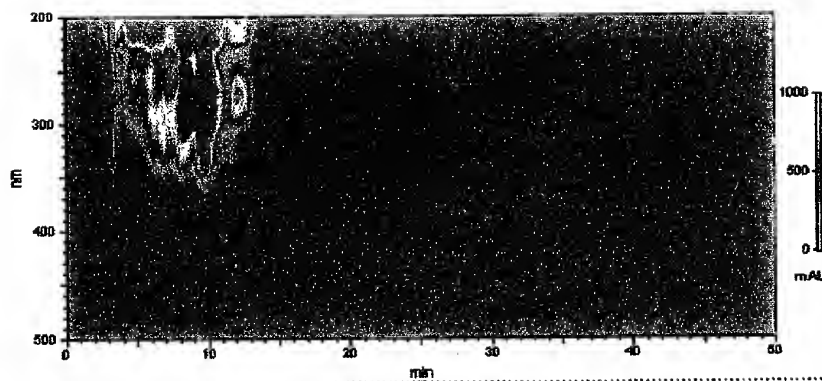
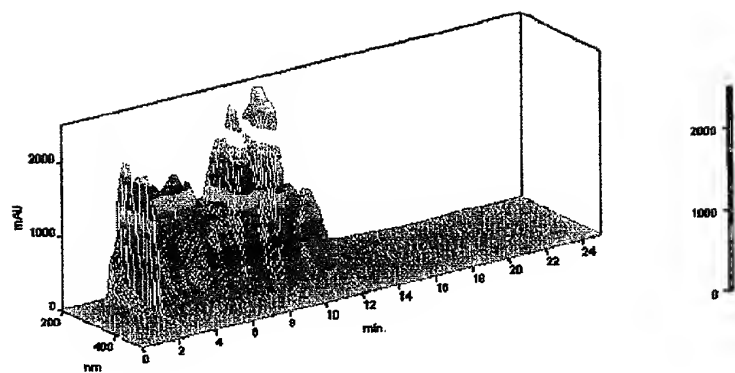
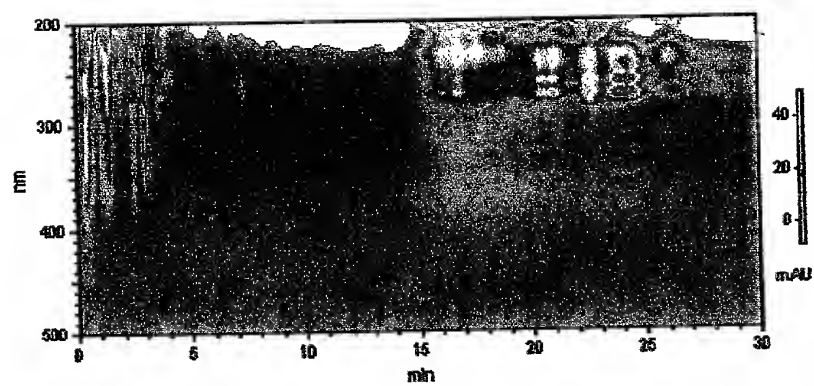
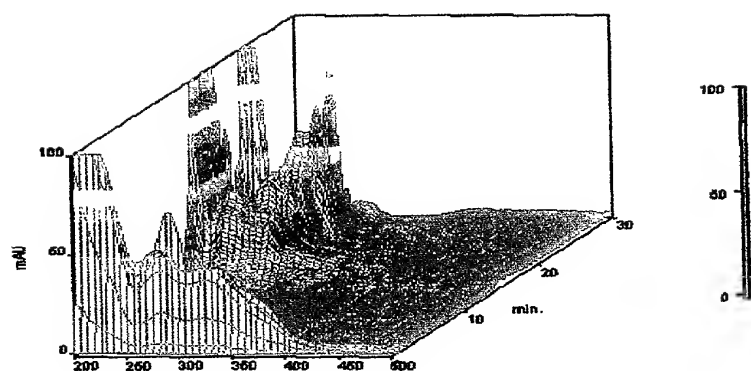


Figure 72



1

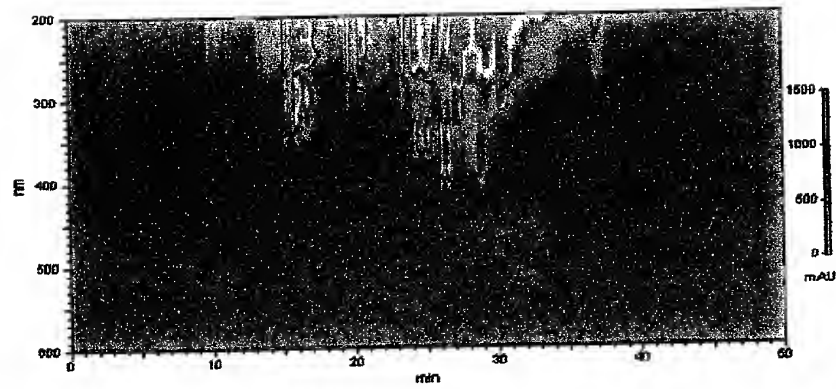
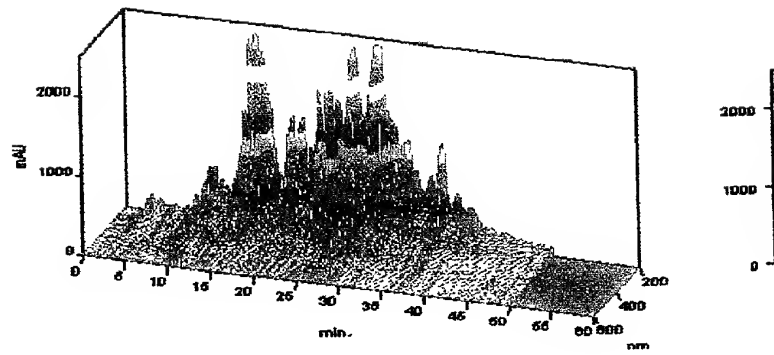


Figure 74

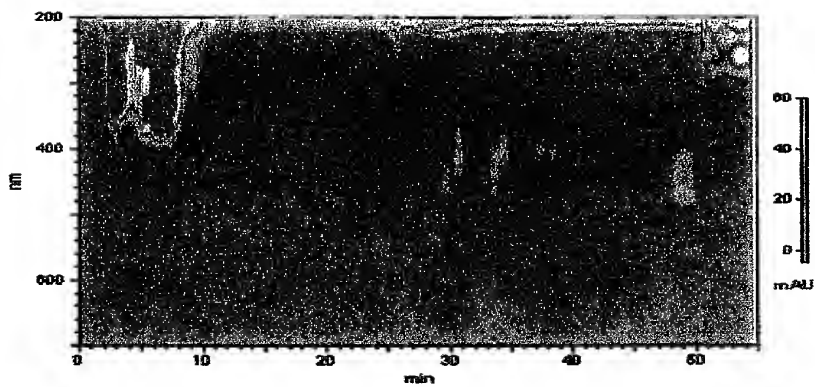
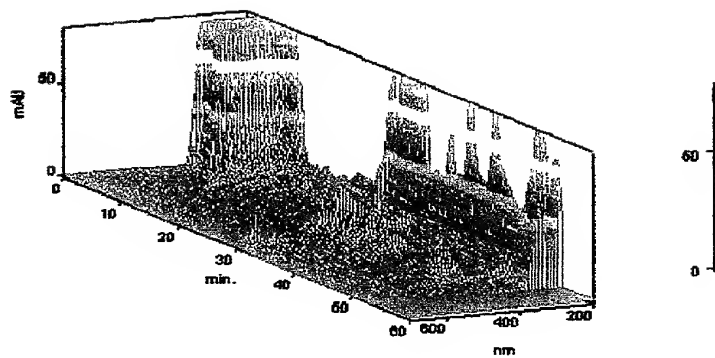


Figure 74 shows the 3D surface plot and 2D contour plot of the mAU (milliabsorbance units) as a function of time (min) and wavelength (nm). The 3D plot shows a peak at approximately 250 nm and 25 minutes, reaching a maximum mAU of about 60. The 2D contour plot shows the same data in a 2D format, with the color scale indicating mAU values from 0 to 60.

1

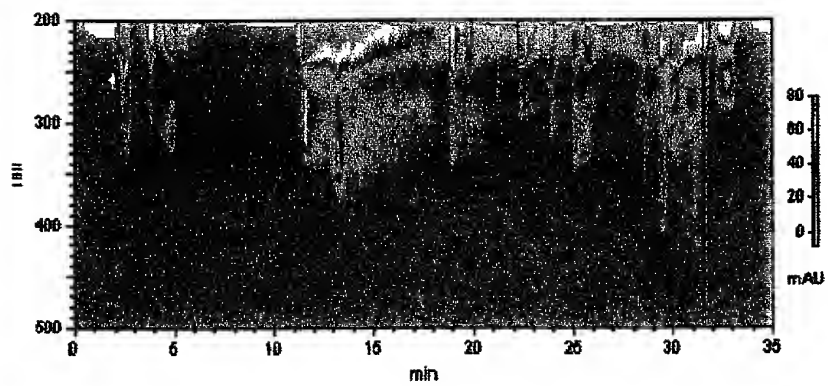
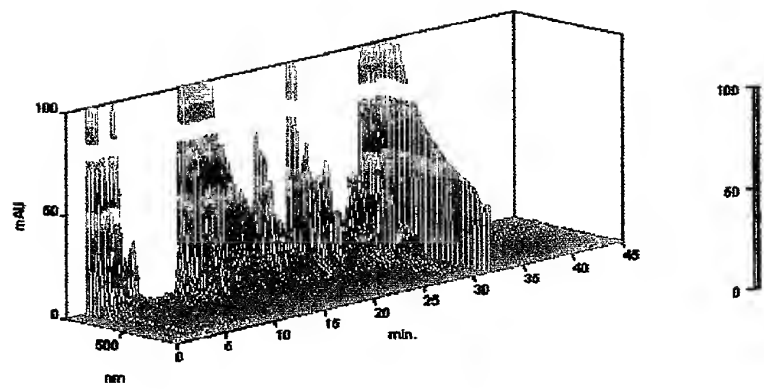
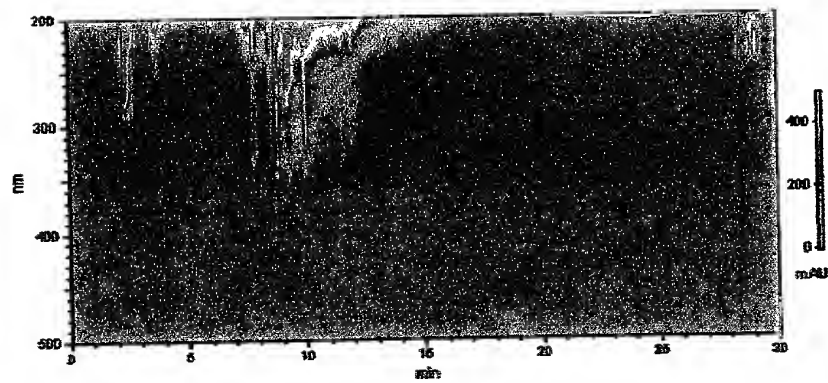
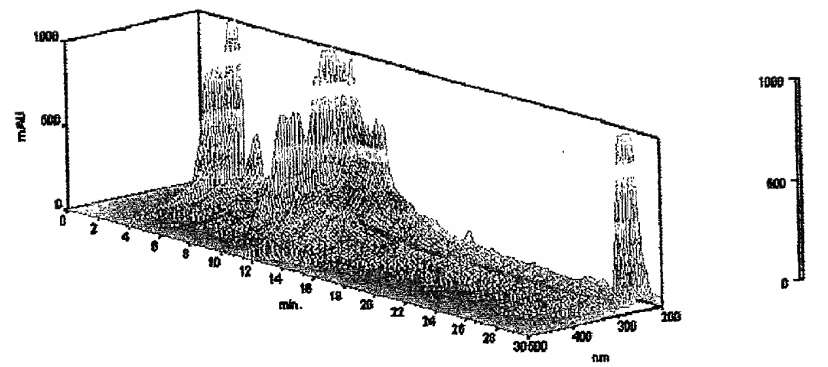


Figure 76



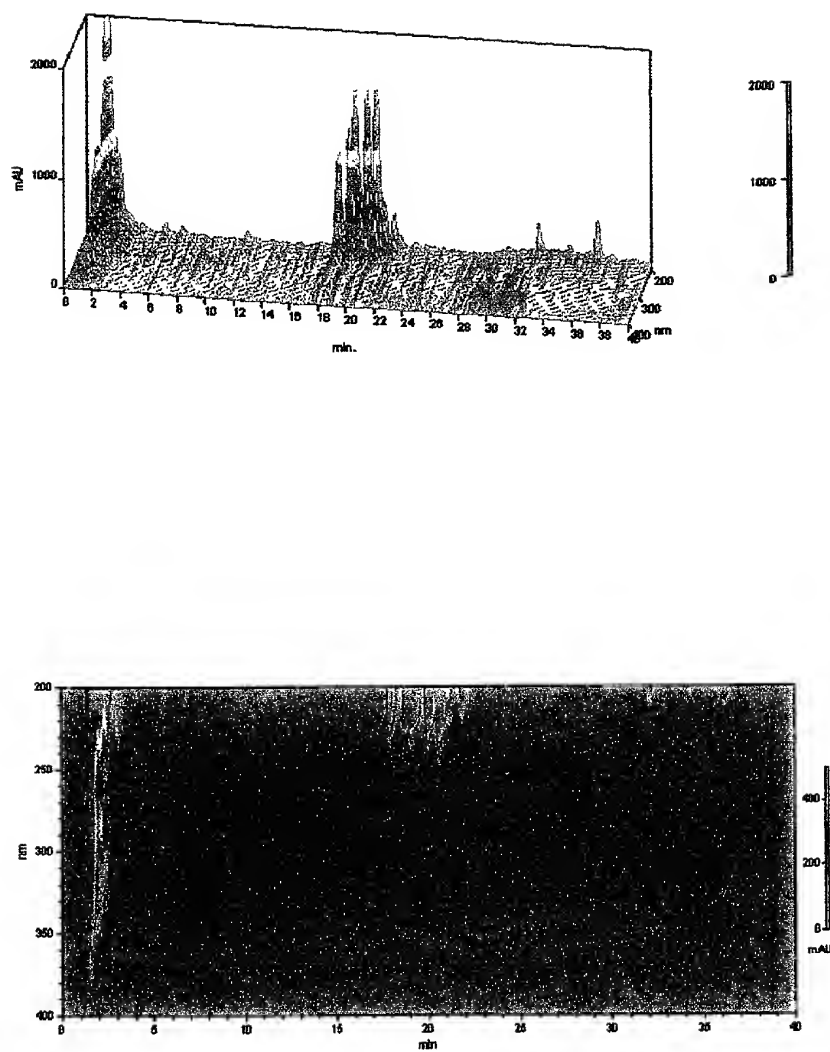
[illegible]

Figure 78

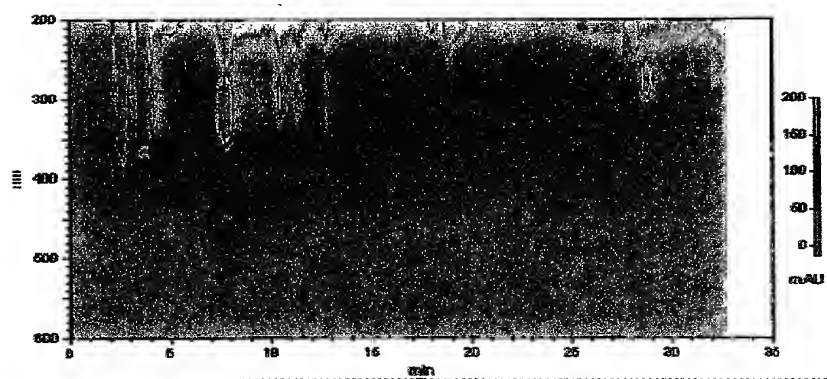
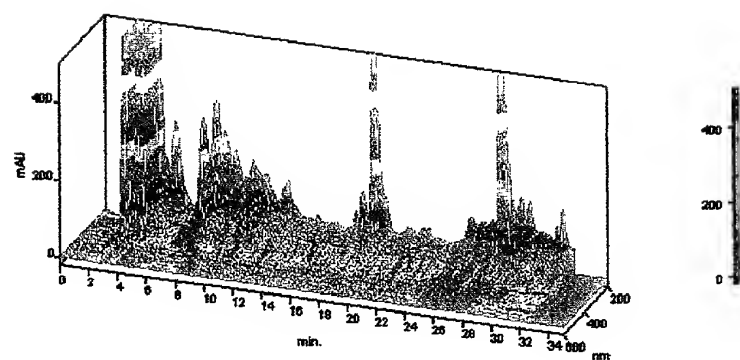


Figure 79

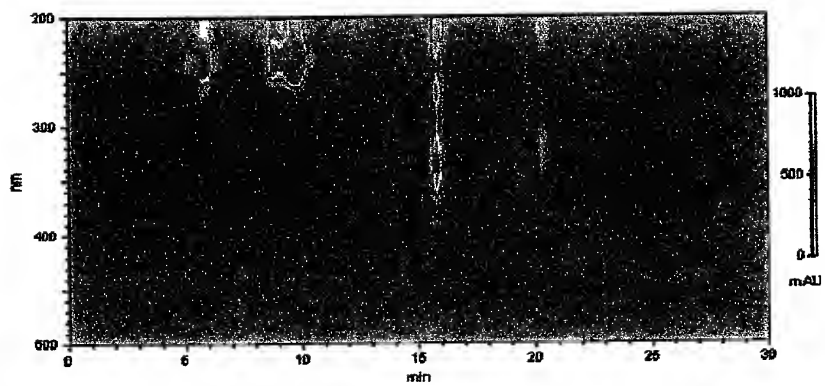
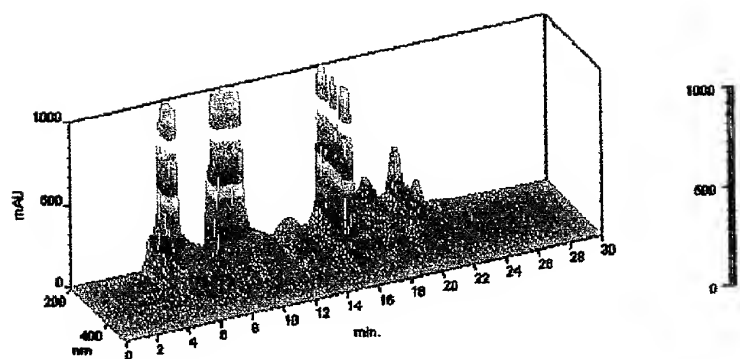


Figure 80

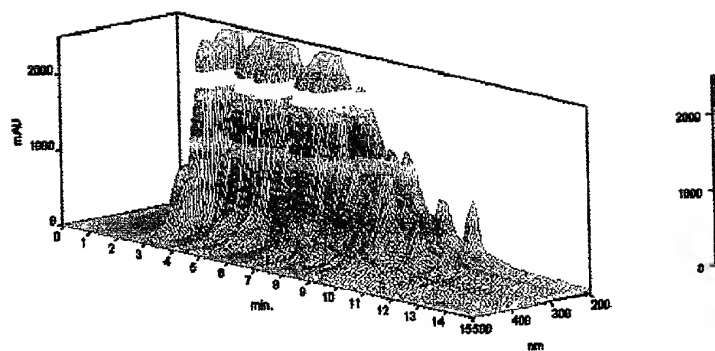


Figure 81

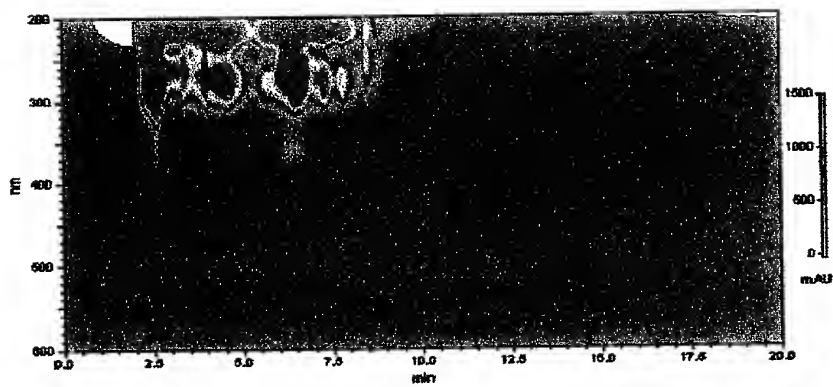
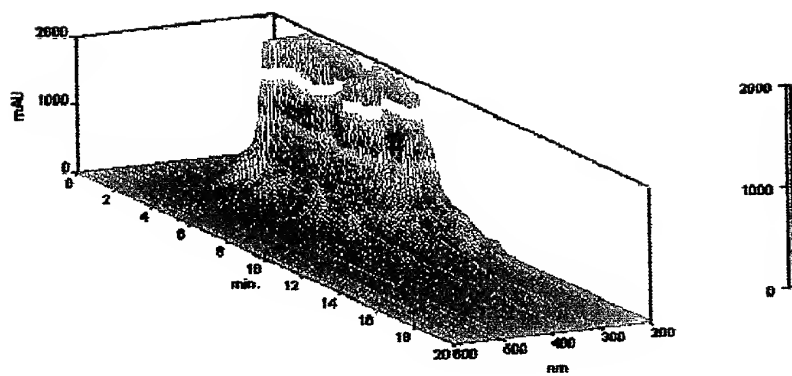
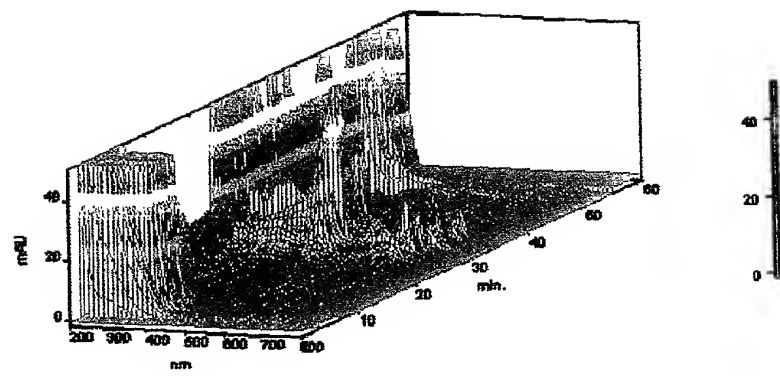
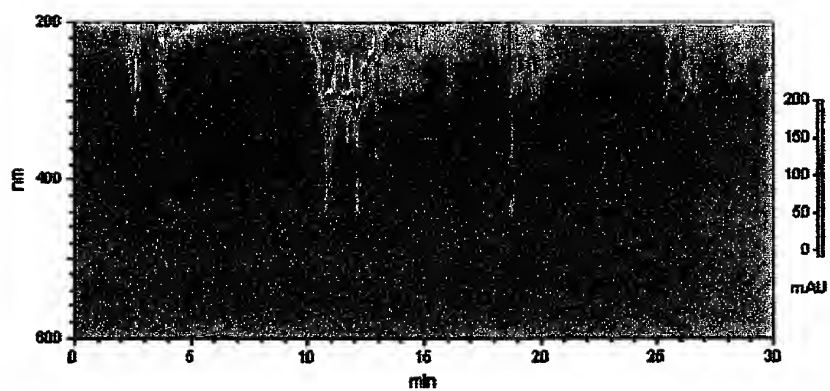
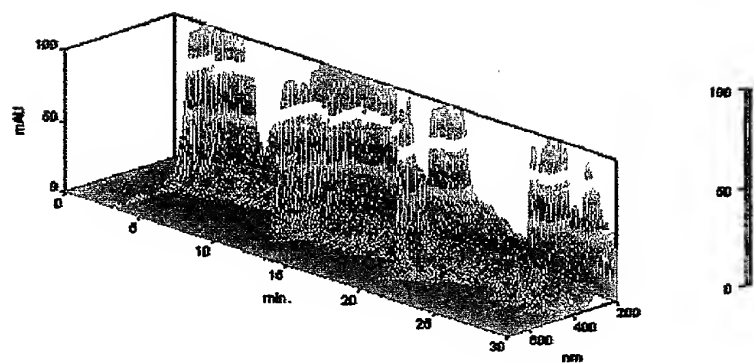


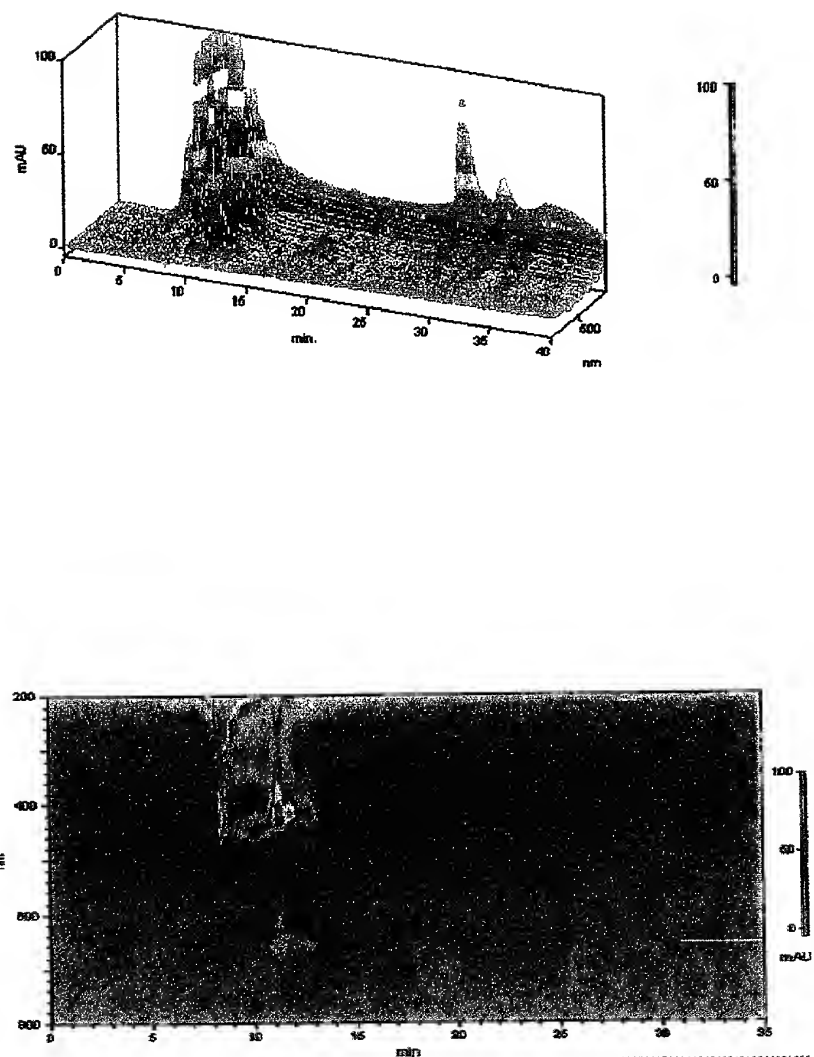
Figure 82



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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4

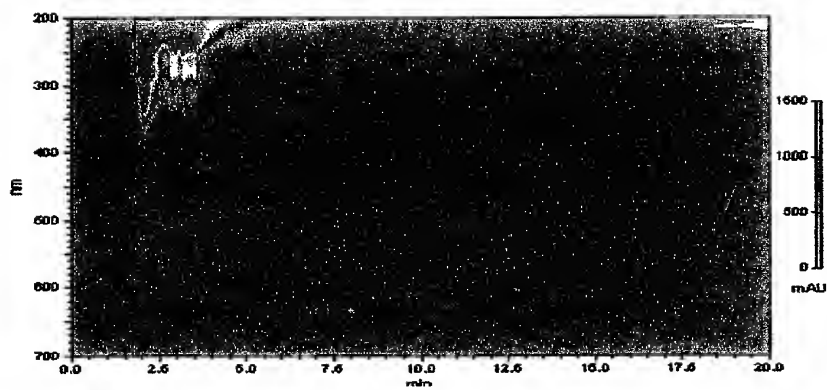
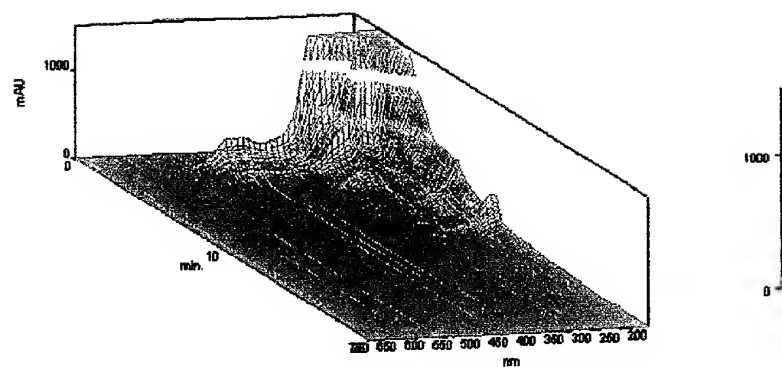


Figure 86

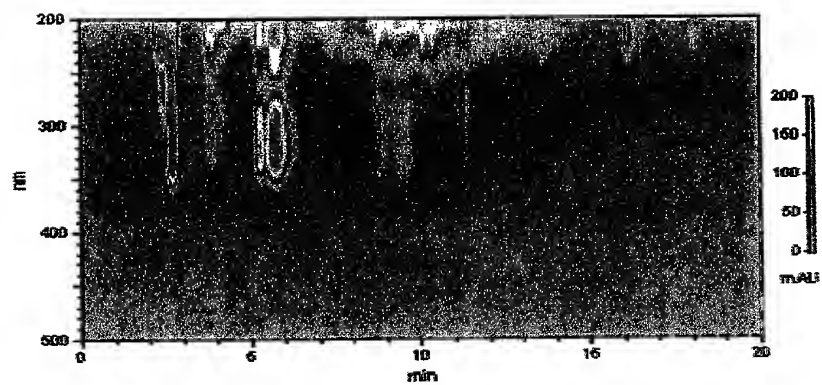
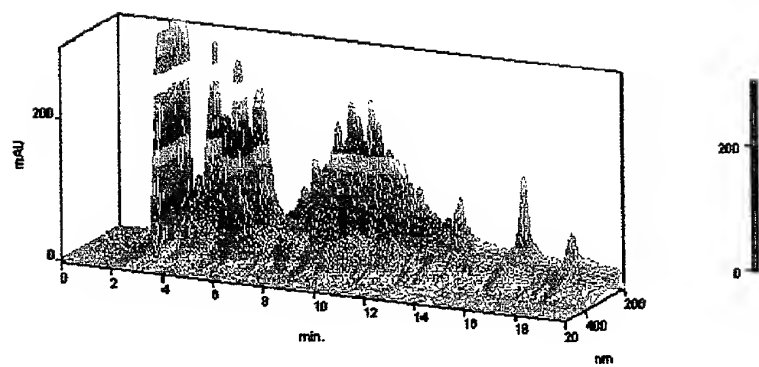
[illegible]

FIGURE 87

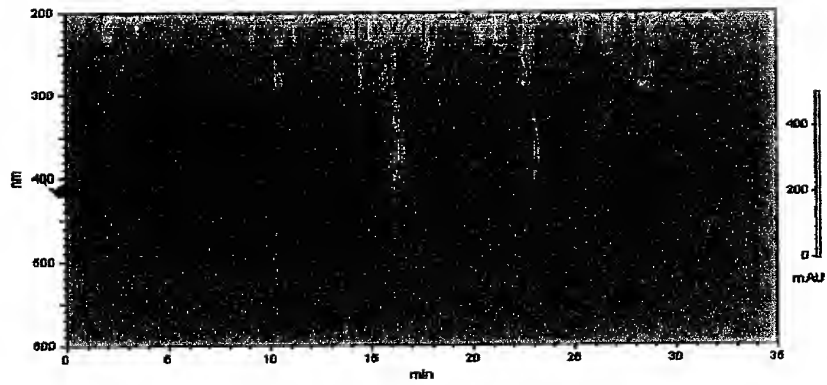
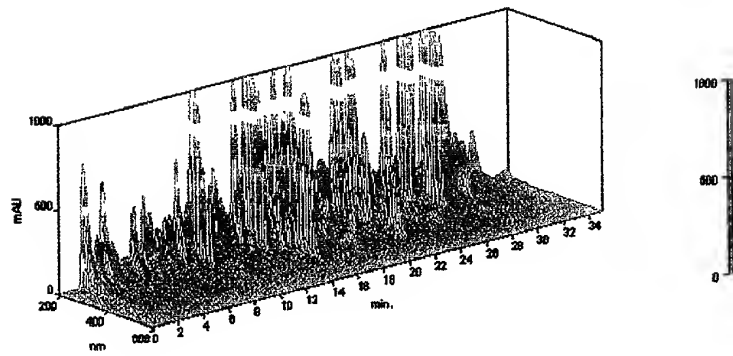
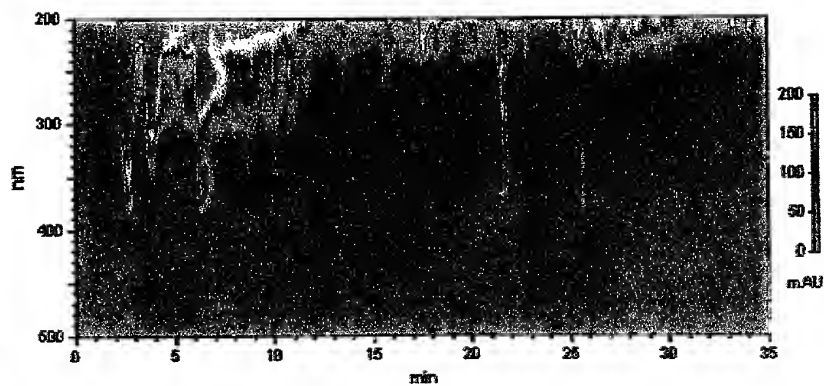
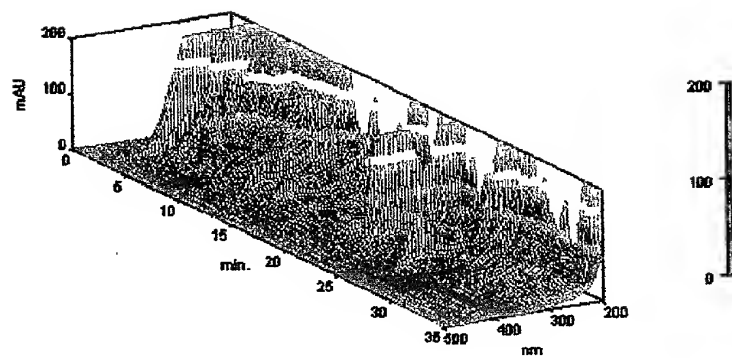


Figure 88



U.S. GOVERNMENT PRINTING OFFICE: 1975 O - 284-100

Figure 89

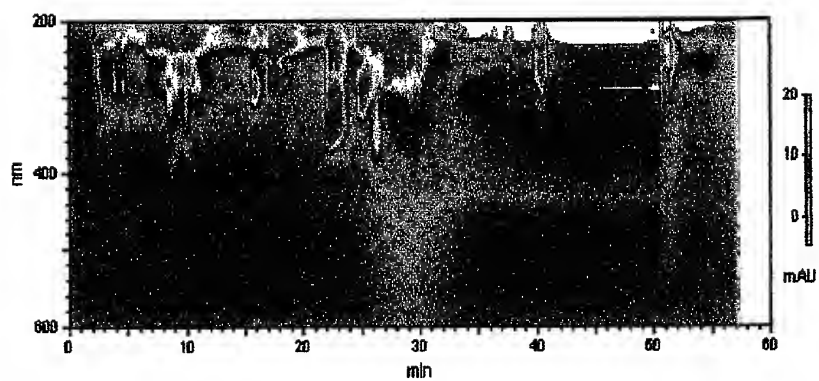
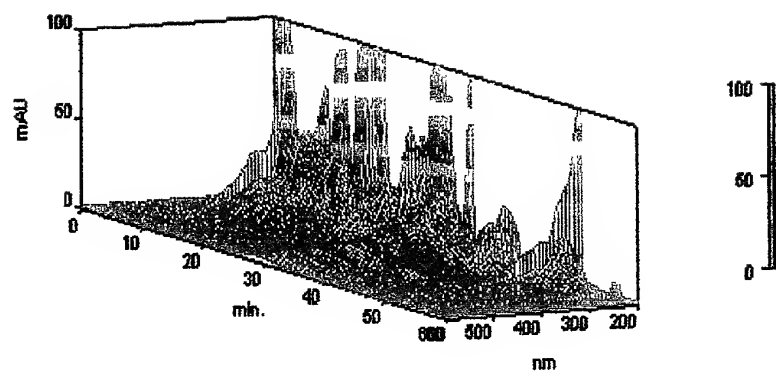


Figure 90

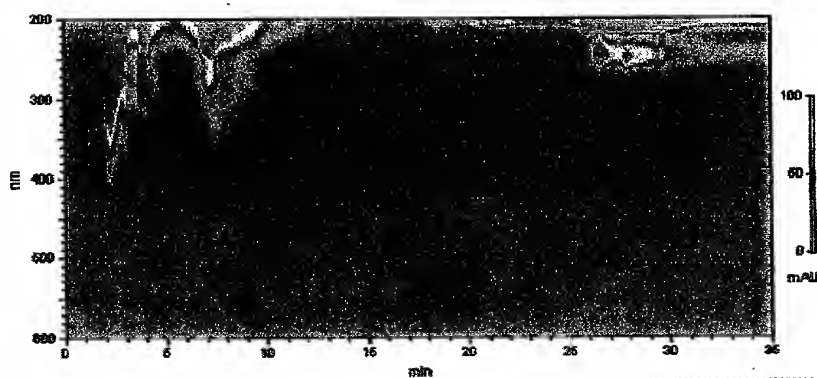
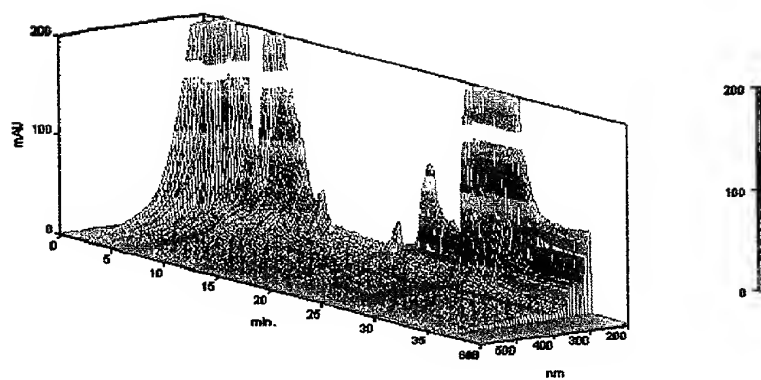
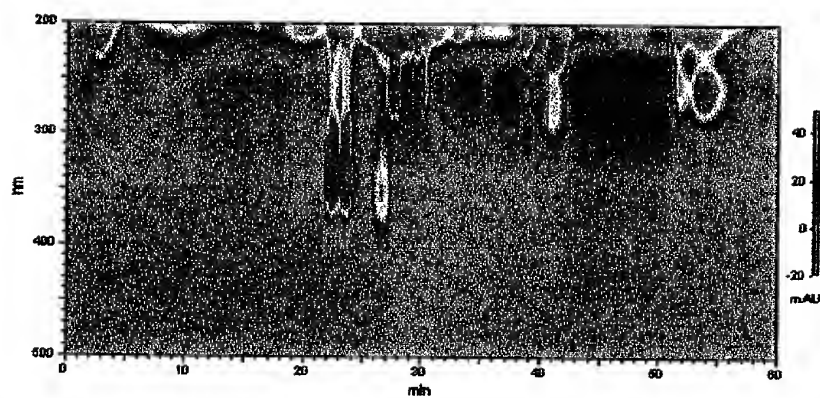
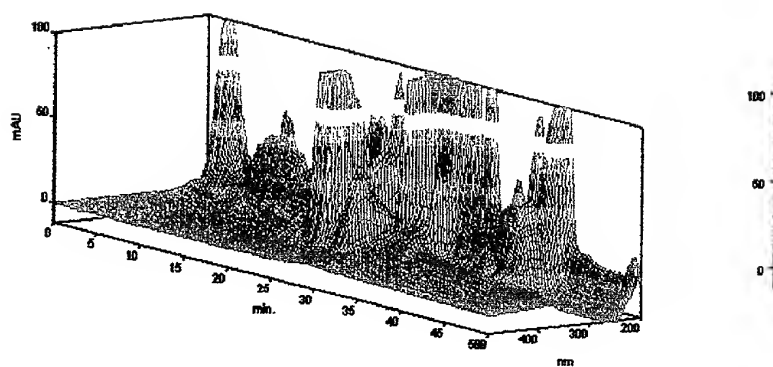


Figure 91



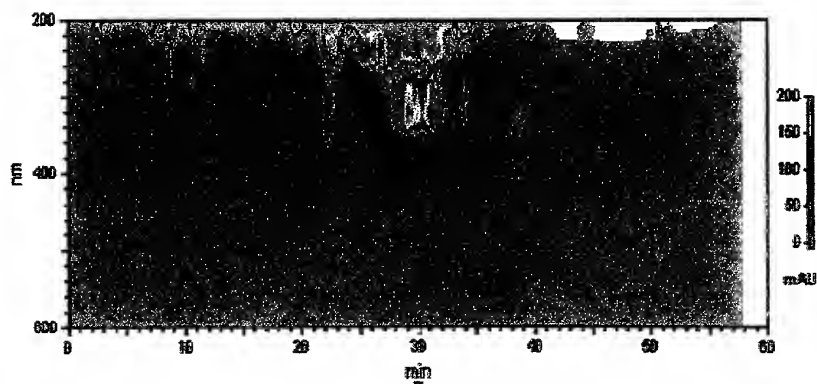
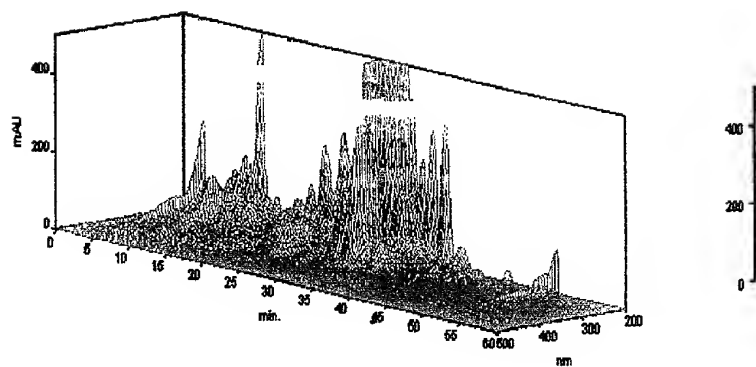
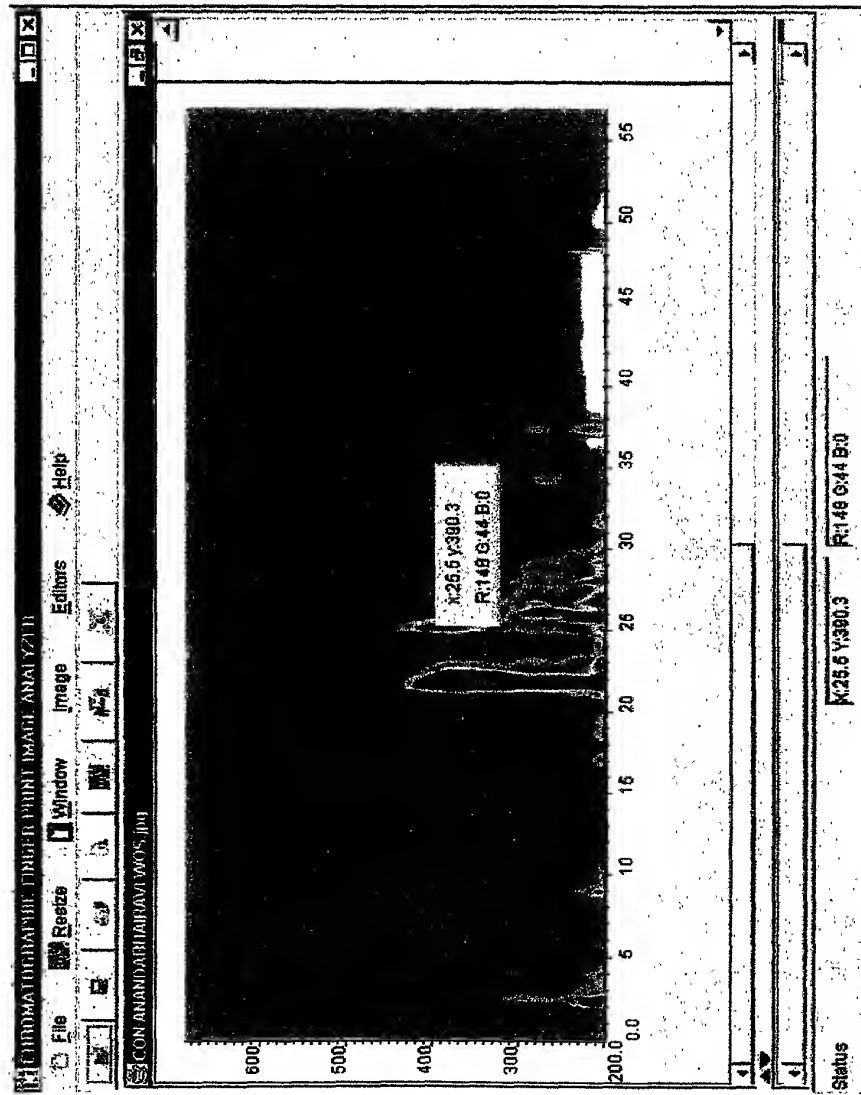
[illegible]

Figure 93

IMAGES WITH BAR CODE VALUES GIVEN BY THE SOFTWARE TO FEED FOR A BAR CODING SOFTWARE

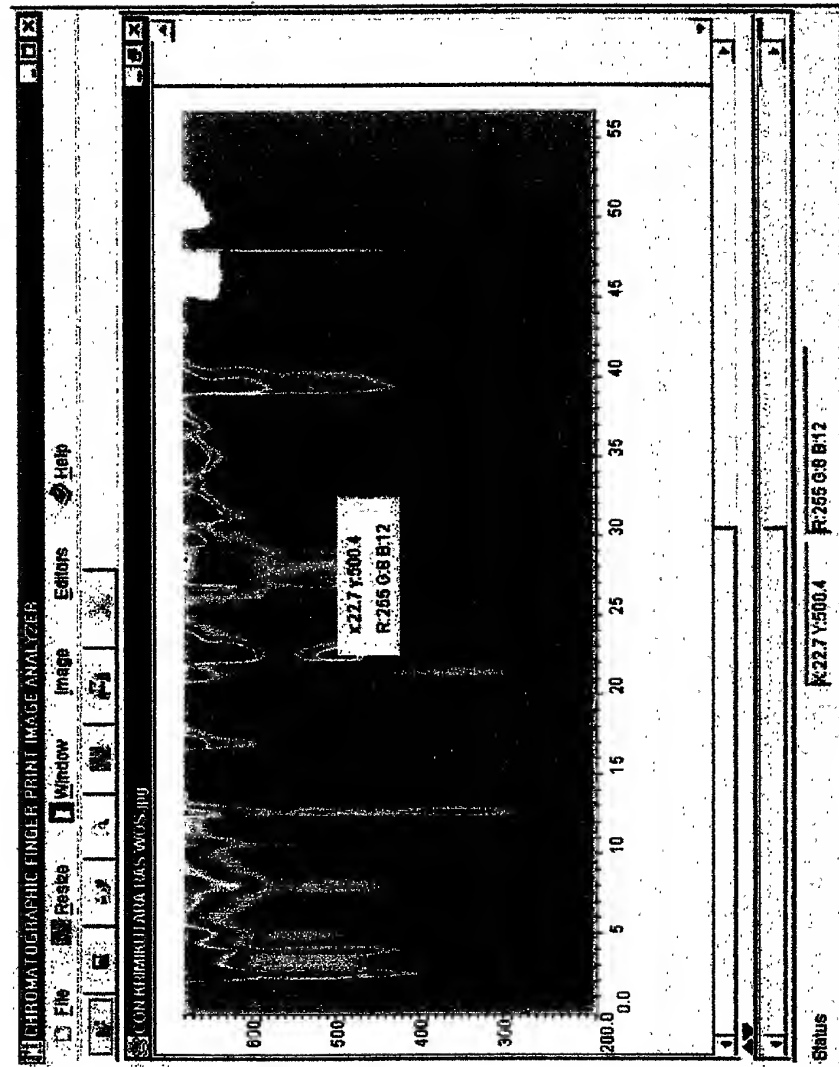


Anandabhairavi Ras

Y right clicking the image software is able to show the coordinates on the box near the peak. The same is shown in down tool bar. These will be exported to barcoding software

Figure 94

IMAGES WITH BAR CODE VALUES GIVEN BY THE
SOFTWARE TO FEED FOR A BAR CODING SOFTWARE



Krimikutara Ras

Same mechanism as explained in Figure 93

Figure 95



X25.5Y390.3R148G44B0


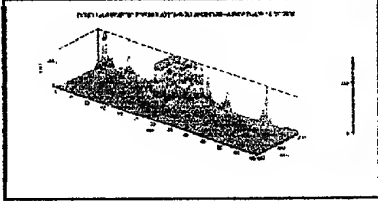
ANANDABHAIRAVI RAS

Barcode generated for specified coordinates.

[illegible]


Figure 97

Name of the product: Anandabhairavi Ras
Owner: Industry
Finger prints:



Mfg. Date:
Date of expiry:
Individual constituents:
Batch number:
Lot number:
M.R.P.:
Dosage:
Precautions:
For Children:
For pregnant woman:

Barcode:


X25.5Y390.3R148G44B0
ANANDABHAIRAVI

Display Window For Anandabhairavi Ras

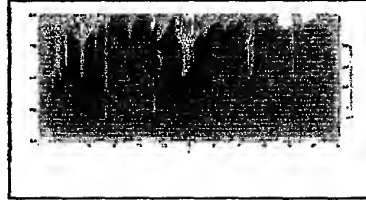
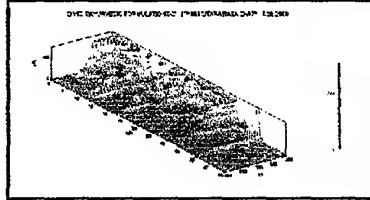
Display windows for all the medicines will be done. This becomes a database for ERP CRM application.

Figure 98

Name of the product: Krimikutara Ras

Owner: Industry

Finger prints:



Mfg. Date:

Date of expiry:

Individual constituents:

Batch number:

Lot number:

M.R.P.:

Dosage:

Precautions:

For Children:

For pregnant woman:

Barcode:



K22. 73500. 4R255G8B12

KRIMIKUTARA RAS

Display Window For Krimikutara Ras

Figure 99

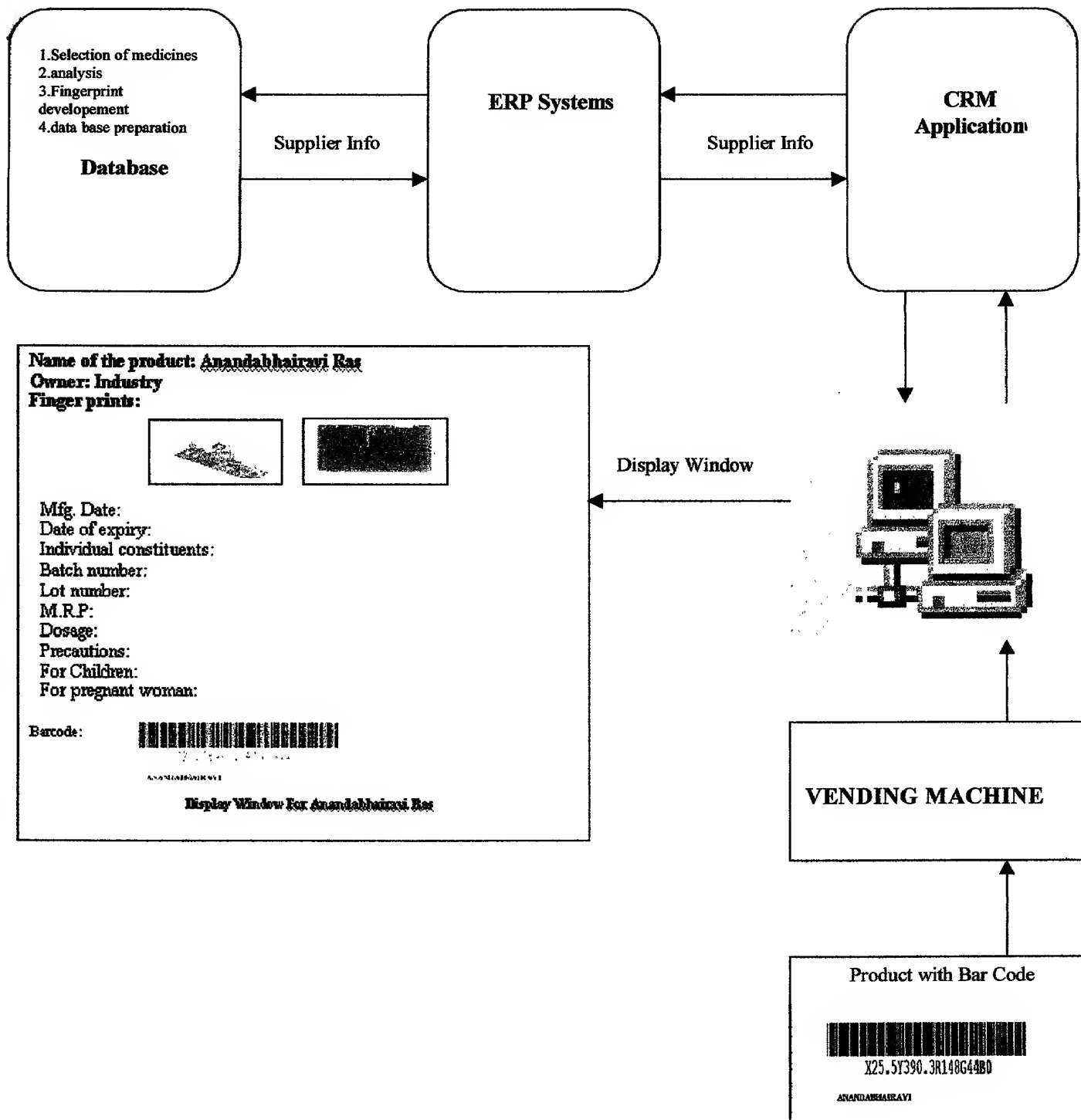
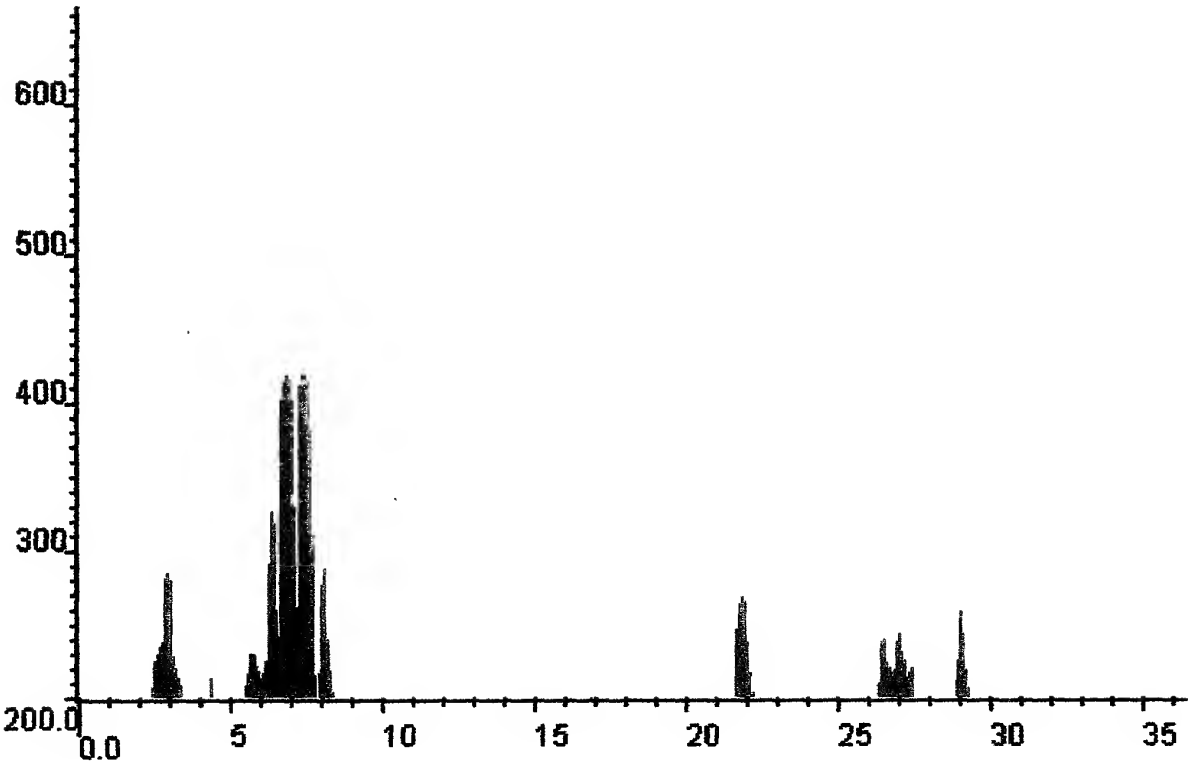


Figure showing the operational mechanism of the ERP and CRM network

Figure 100

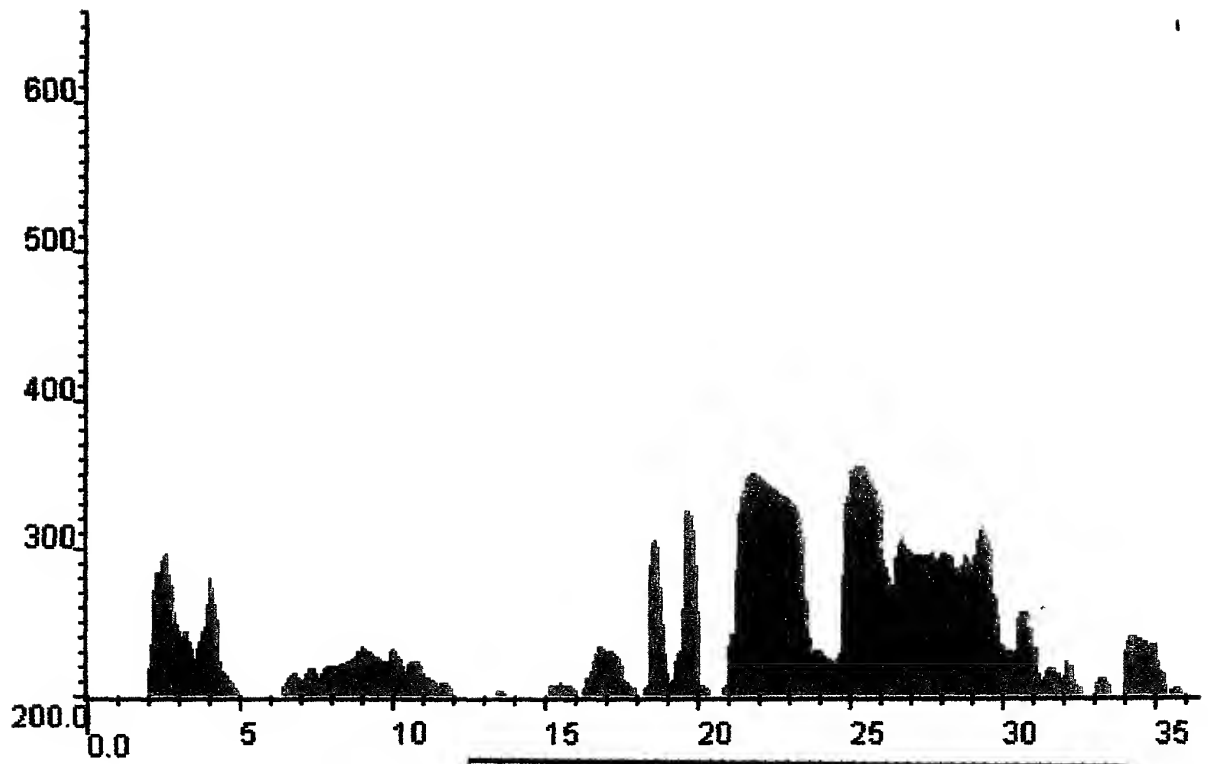


PeakNo	Area Of Pixels
1	271
2	8
3	1818
4	146
5	181
6	213
7	91



CHROMATOGRAM OF AZARDIRACTA INDICA
(Tender leaves in February)

Figure 101

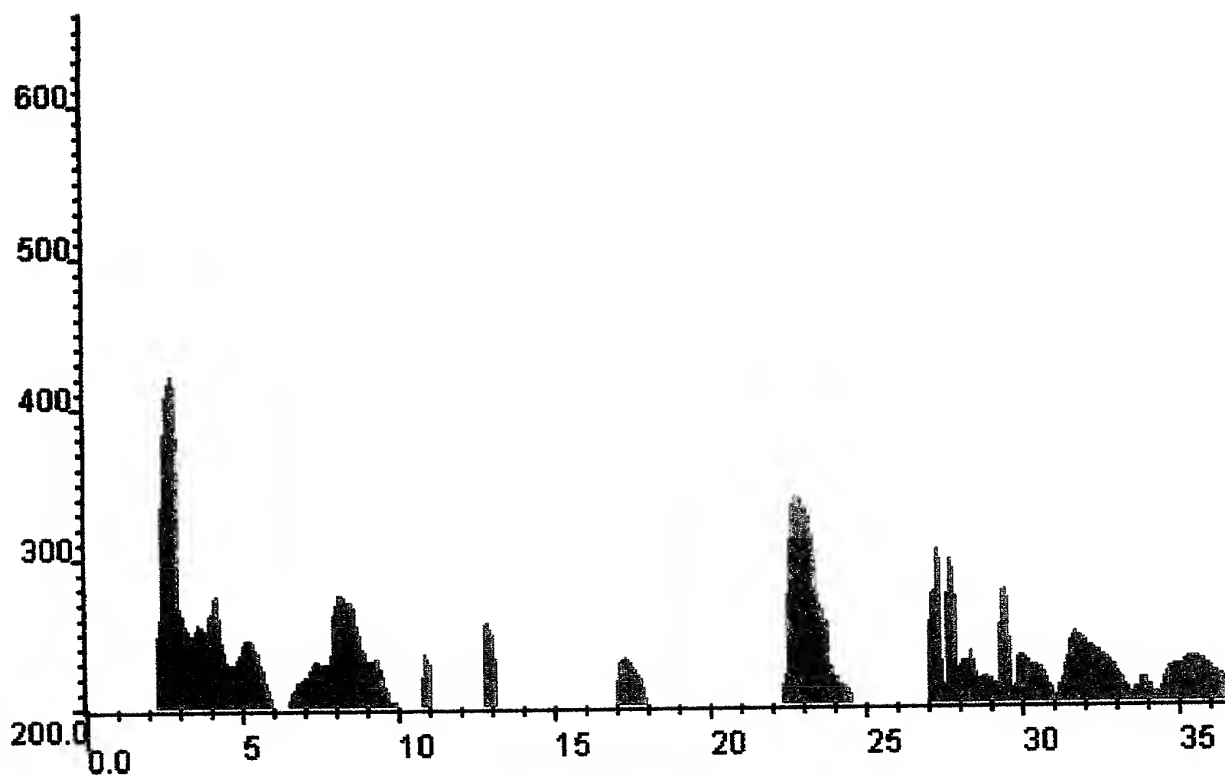


PeakNo	Area Of Pixels
1	1009
2	769
3	7
4	42
5	252
6	829
7	6984
8	35
9	322
10	12
11	405
12	9
13	59
14	106
15	8
16	31

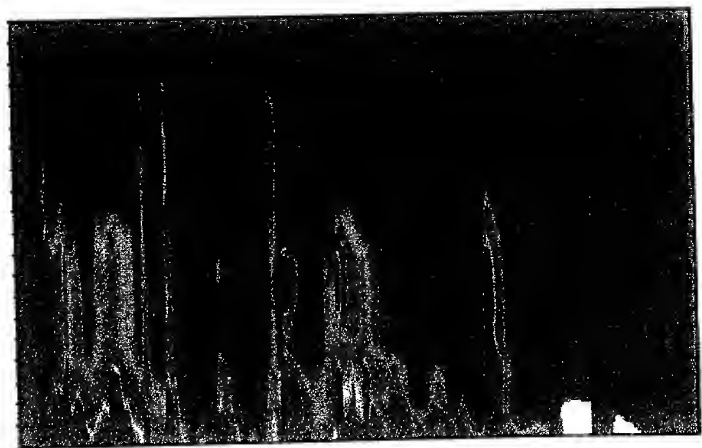


PIE DIAGRAM OF ANANDABHAIRAVI RAS

Figure 102

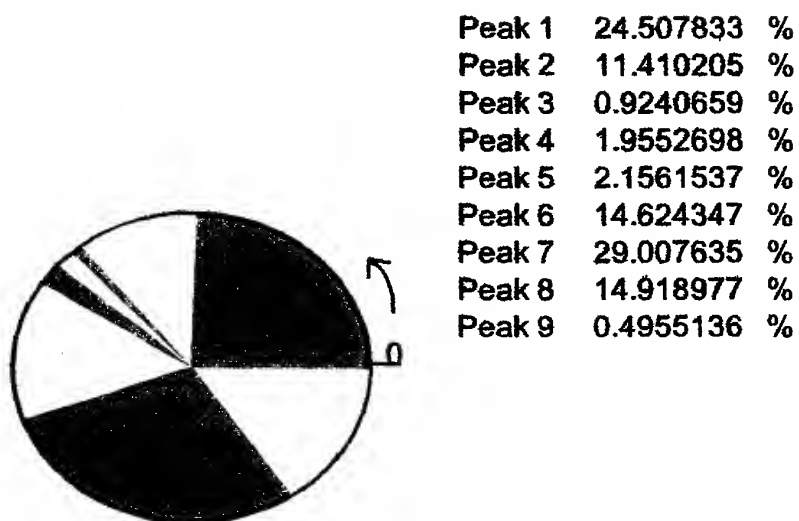


PeakNo	Area Of Pixels
1	1830
2	852
3	69
4	146
5	161
6	1092
7	2166
8	1114
9	37



CHROMATOGRAM OF KRIMIKUTARA RAS

Figure 103

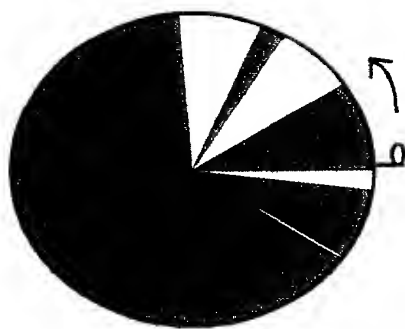


Percentage of pixels represents the constituents.

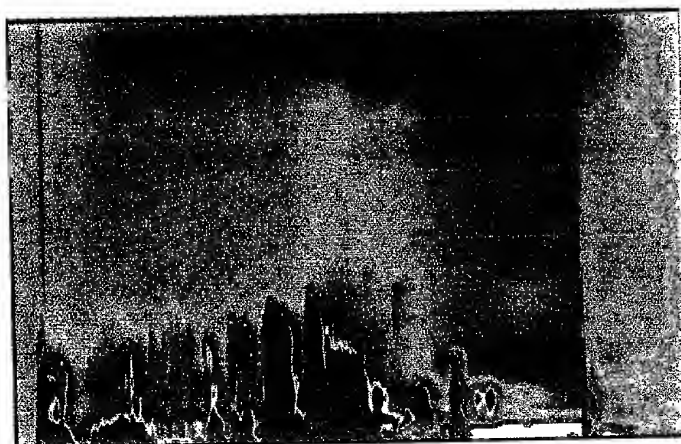


PIE DIAGRAM OF AZARDIRACTA INDICA
(Tender leaves in February)

Figure 104

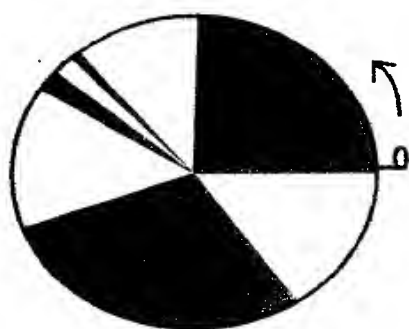


Peak 1	9.27475 %
Peak 2	7.0686646 %
Peak 3	0.06434415 %
Peak 4	0.3860649 %
Peak 5	2.3163893 %
Peak 6	7.620186 %
Peak 7	64.197075 %
Peak 8	0.32172075 %
Peak 9	2.9598308 %
Peak 10	0.11030425 %
Peak 11	3.7227685 %
Peak 12	0.08272819 %
Peak 13	0.54232925 %
Peak 14	0.97435427 %
Peak 15	0.07353617 %
Peak 16	0.28495267 %



PIE DIAGRAM OF ANANDABHAIRAVI RAS

Figure 105



Peak 1	24.507833	%
Peak 2	11.410205	%
Peak 3	0.9240659	%
Peak 4	1.9552698	%
Peak 5	2.1561537	%
Peak 6	14.624347	%
Peak 7	29.007635	%
Peak 8	14.918977	%
Peak 9	0.4955136	%

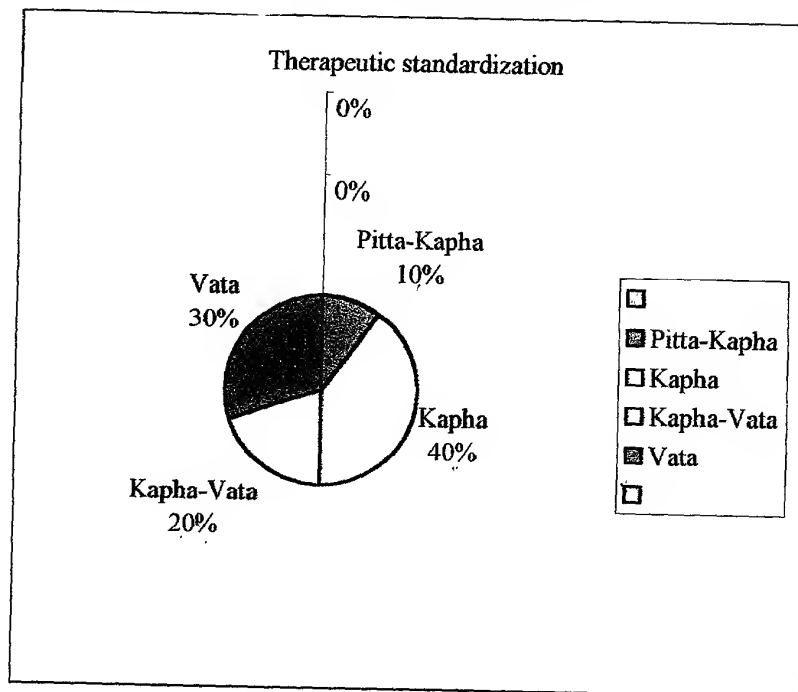


PIE DIAGRAM OF KRIMIKUTARA RAS

Figure 106

Pixel values or percentage values from graphs.

Pitta-Kapha: 10
Kapha 40
Kapha-Vat. 20
Vata 30



This gives the efficacy of the medicine due to the constituents present in various zones of the fingerprint.

The values of pixels were taken generally and are not for a chromatogram. This figure only shows only how it appears.

Pitta	23
Pitta-Kapha	11
Kapha	11
Kapha-Vata	11
Vata	34
Vata-Pitta	11

Figure 107

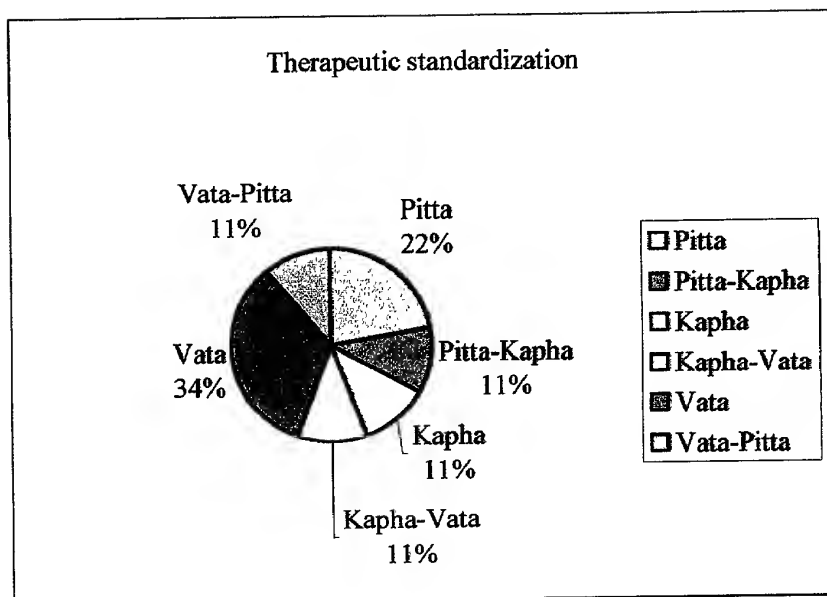
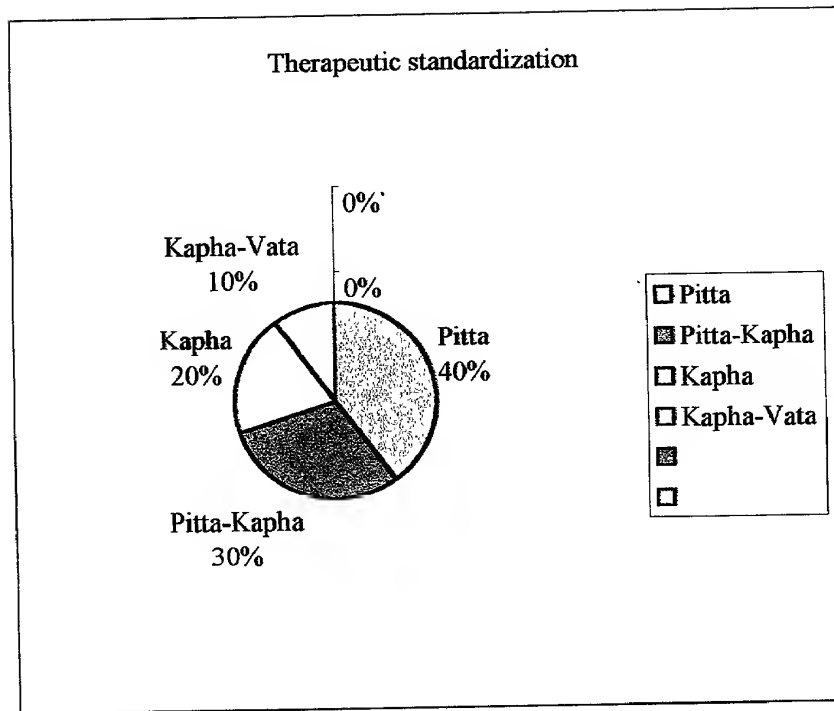


Figure 108

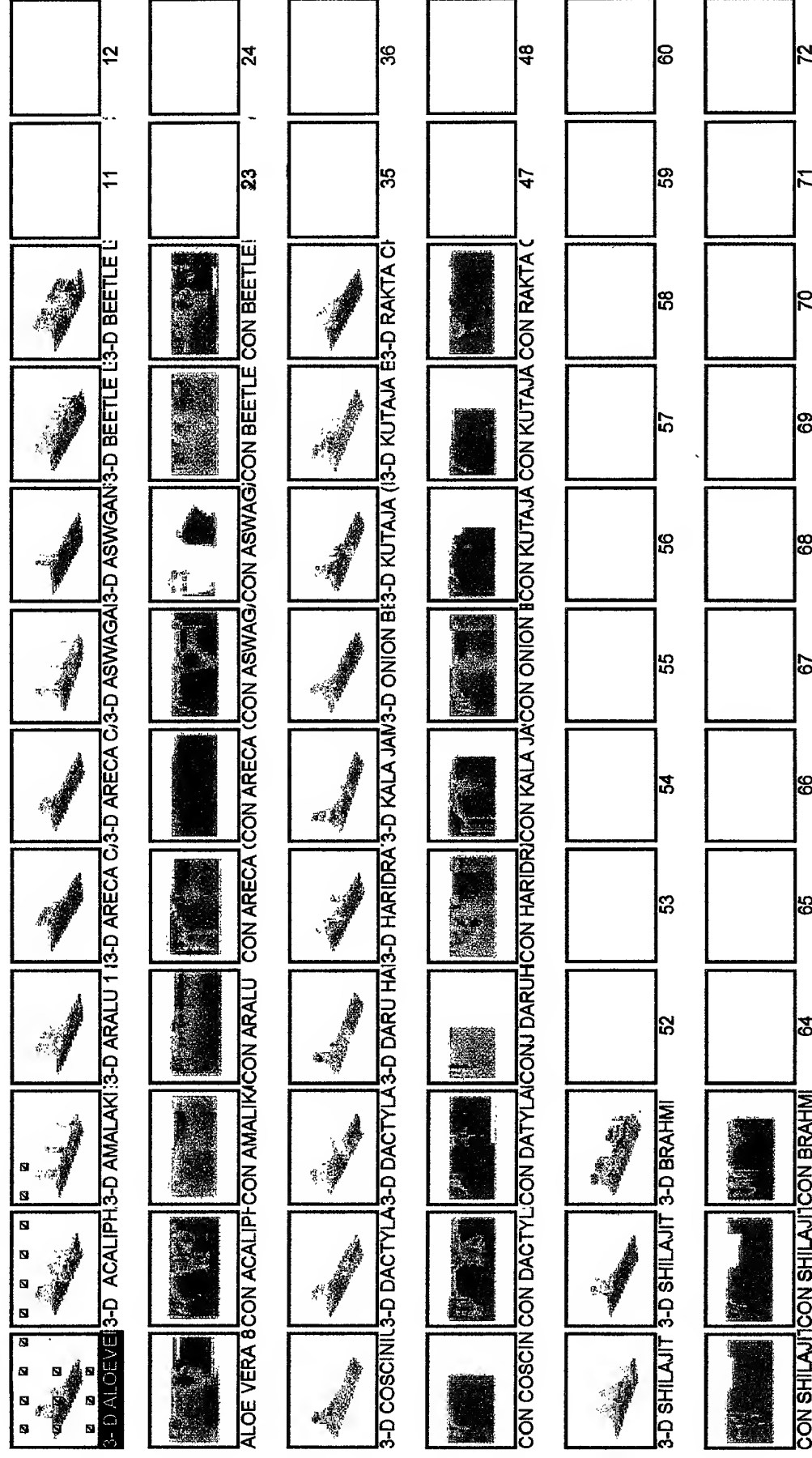
Pitta
Pitta-Kaph.
Kapha
Kapha-Vat.

40
30
20
10



	,	

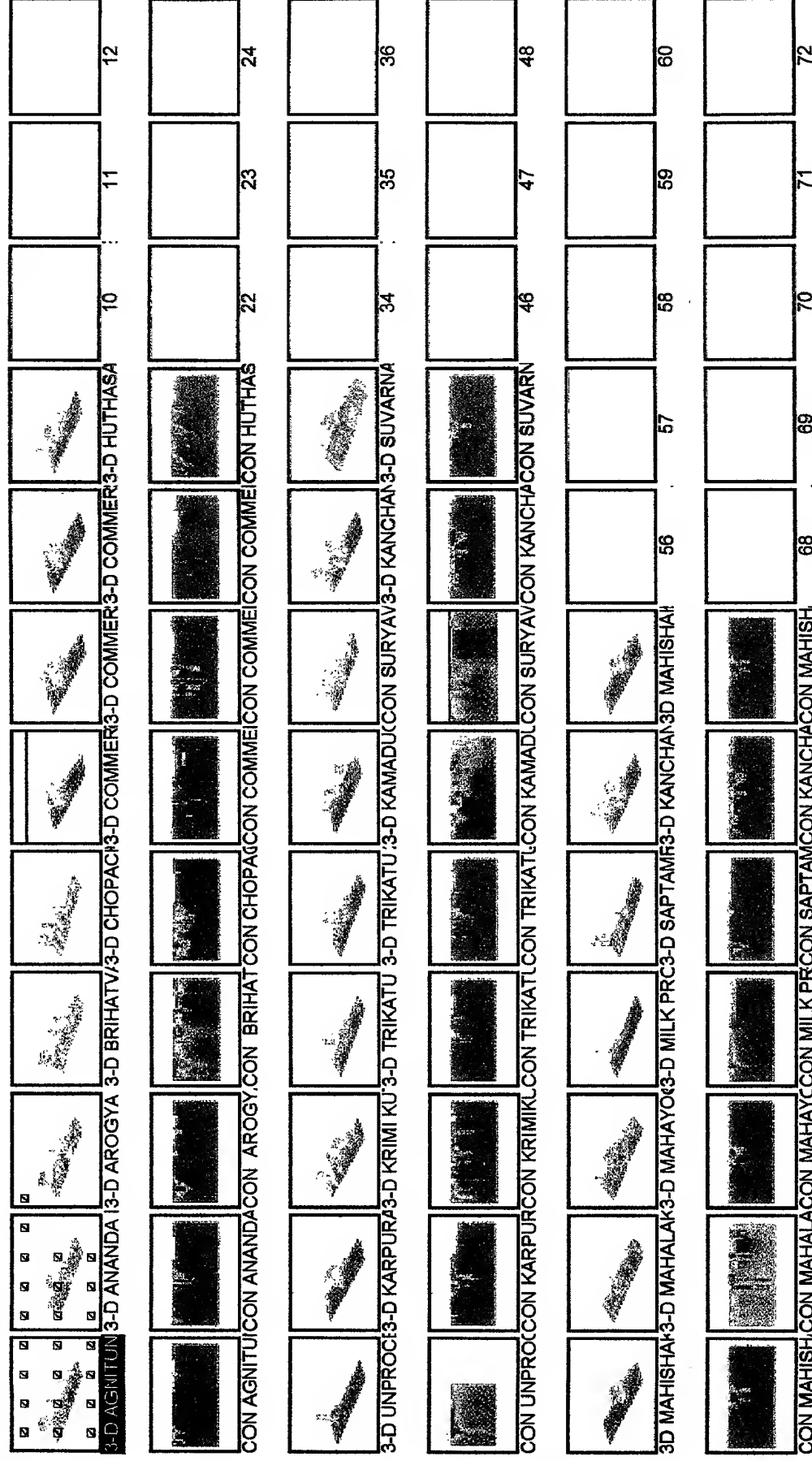
Figure 109



These libraries of 3d and contour images of medicines will be prepared as a database for various ERP and CRM applications. The 3d and Contour chromatograms are given in top and bottom lines.

Databases based on color, taste, odour, therapeutic value, phytochemical parameters can be prepared to understand the therapeutic efficacy of a specific batch/class of medicines.

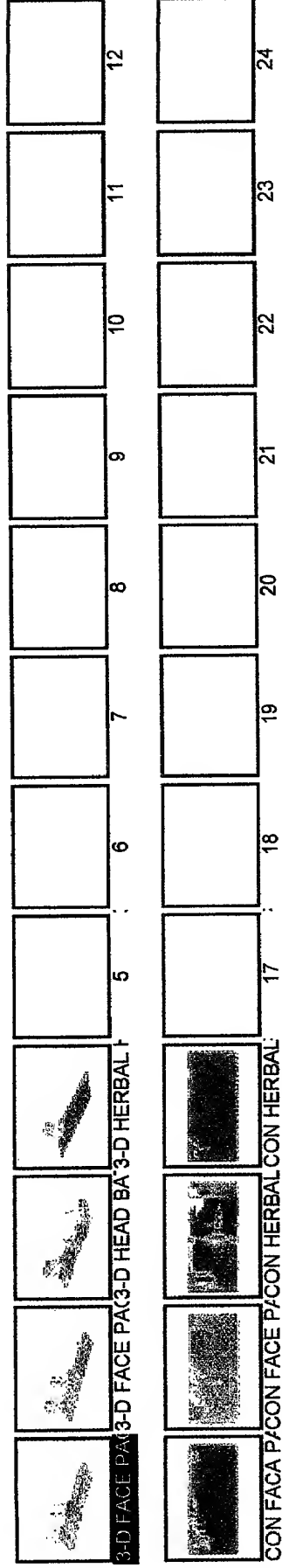
Figure 110



These will help the industry to monitor their product profile for the market and also for proper standardization to prepare a formulation.

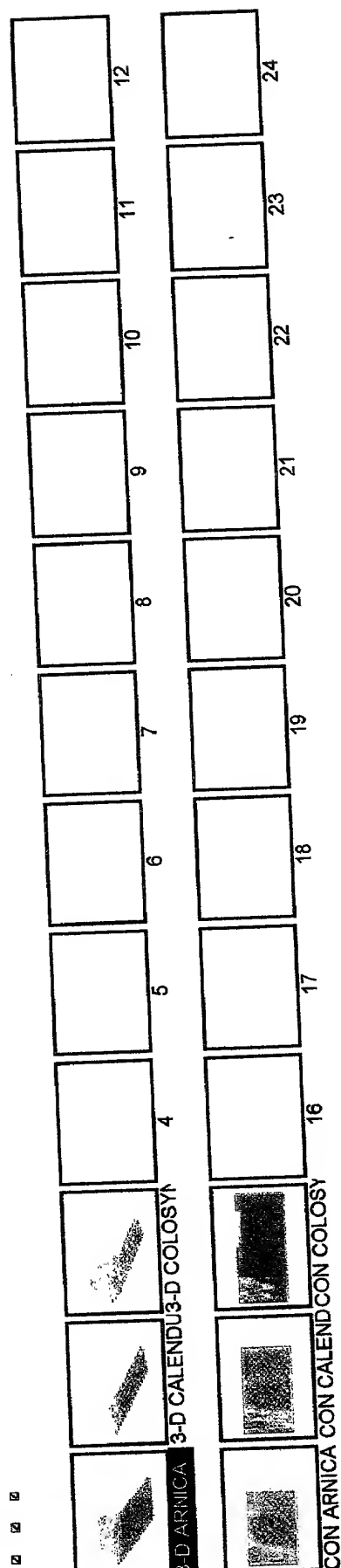
3-D FACE PA(3-D FACE PA(3-D HEAD BA 3-D HERBAL

Figure 111



Example for adulterated cosmetic samples.

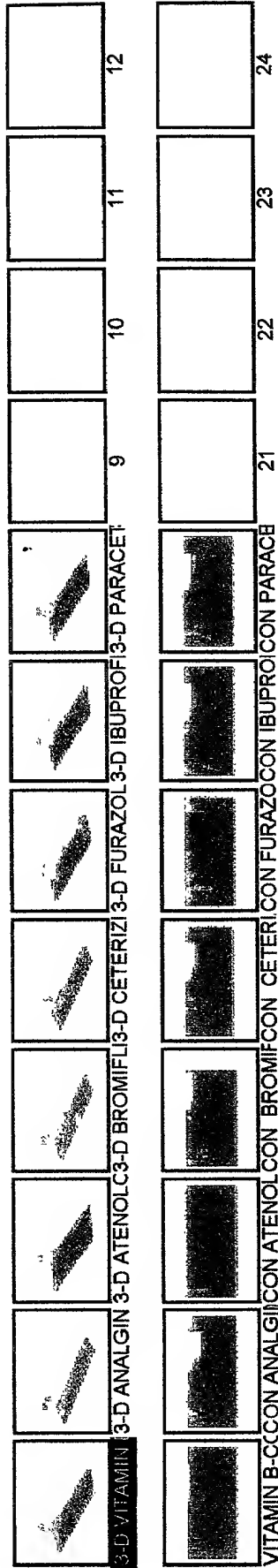
Figure 112



The fingerprint of Mother tincture only were done. They can be done to the level of femto gram level as the PDA detectives are very sensitive. Hence dilution can also be fingerprinted.

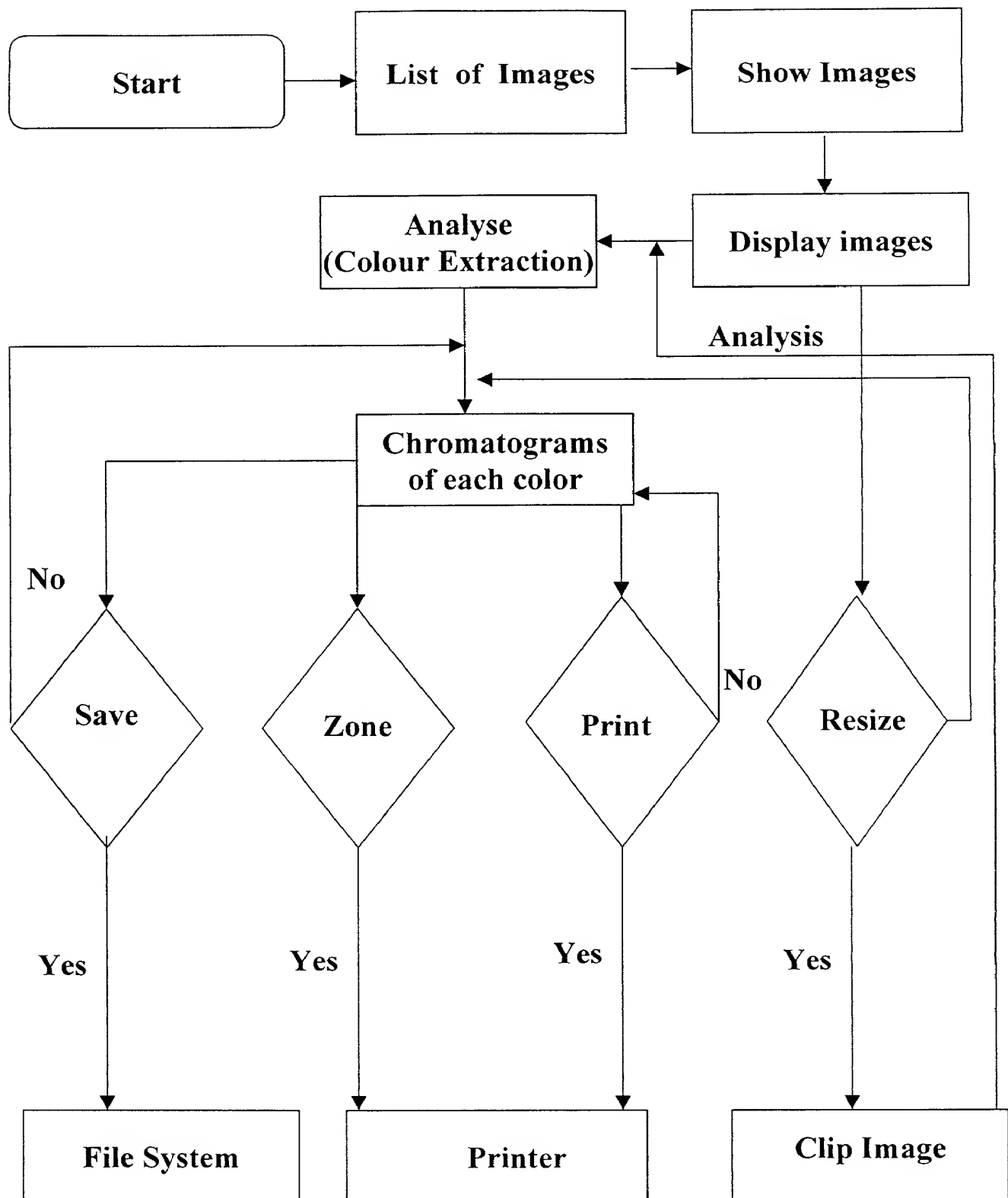
3-D VITAMIN 3-D ANALGIN 3-D ATENOL 3-D BROMIFL 3-D CETERIZI 3-D FURAZOL 3-D IBUPROFI 3-D PARACE

Figure 114



This method can be used for all allopathic medicines for chemical and therapeutic standardization.

Figure 115



OPERATIONAL SEQUENCE OF SOFTWARE